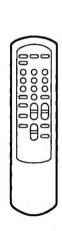
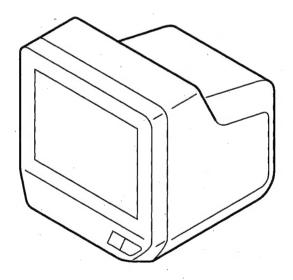
SERVICE MANUAL

BN-1 chassis

MODEL.	COMMANDER DEST.	CHASSIS NO.	MODEL	COMMANDER DE	
KV-9PT50	RM-Y116 US	SCC-J58A-A			
KV-9PT50	RM-Y116 CND	SCC-J59A-A			
KV-9PT60	RM-Y116 US	SCC-J58B-A			
KV-9PT60	RM-Y116 CND	SCC-J59B-A		• .	
,					
	•				







* Please file according to model size.

TRINITRON® COLOR TV
SONY®

SPECIFICATIONS

Television system

American TV standard, NTSC color

Channel coverage

VHF: 2-13/UHF: 14-69/CATV: 1-125

Screen size

9-inch picture measured diagonally

Antenna

VHF/UHF telescopic antenna

Speaker

77 mm round (3 1/s inches), 1 W

Inputs

VIDEO: RCA phono-type 1 Vp-p,

75 ohms

AUDIO: RCA phono-type monaural

VHF/UHF (Combined CATV/VHF/

UHF 75-ohm, F-type)

Output

Headphone jack (monaural)

Dimensions

Power requirements

KV-9PT50: 120 V AC, 60 Hz

KV-9PT60: 120 V AC, 60 Hz, 12 V DC

Power consumption

KV-9PT50: AC IN 53 W max.

KV-9PT60: AC IN 53 W max.

DC IN 53 W max.

Mass

KV-9PT50: 5.5 kg (12 lb 2 oz)

KV-9PT60: 5.7 kg (12 lb 9 oz)

Supplied accessories

Remote commander RM-Y116

Size A.A batteries (2)

Telescopic antenna (1)

KV-9PT50 only: Dual mode swivel

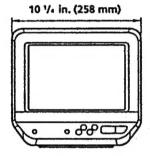
bracket (1), Attachment parts (1), Paper

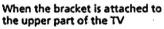
pattern (1)

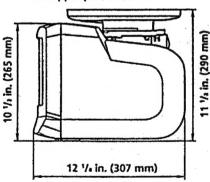
KV-9PT60 only: AC power cord (1), Car

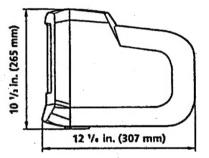
battery cord DCC-22AW (1)

Design and specifications are subject to change without notice.









When the bracket is attached to the lower part of the TV

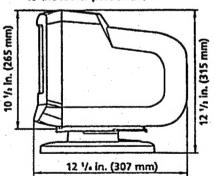


TABLE OF CONTENS

Section 1.GENERAL	Title	Page	Section	Title	Page
Setting up the KV-	-9PT50	5	1. METHOD	OF SETTING THE SERVICE	
Setting up the KV-	-9PT60	8	ADJUSTM	ENT MODE	24
Connections	***************************************	9	2. MEMORY	WRITE CONFIRMATION ME	ETHOD 24
Setting up the Ren	note Commander	10	3. ADJUST B	UTTONS AND INDICATOR.	25
Setting cable TV of	on or off	10	4. AN ITEM (OF ADJUSTMENTS	25
Presetting Channe	ls	11	H. FREQUI	ENCY ADJUSTMENT (H FRE	3) 26
Functions		12	V. FREQUE	ENCY ADJUSTMENT (V FRE	5) 26
Adjustment the Pic	cture	13	CHROMA '	TRAP (CROM)	26
Customizing the C	Channels Number Buttons	14	SUB PICTU	URE (SPIX)	27
Blocking out a Ch	annel (CHANNEL BLOC	CK) 15	SUB HUE,	SUB COLOR (SHUE, SCOL)	27
Troubleshooting	•••••	16	V. CENTER	R (VPOS)	28
2. DISASSEMBLY			H. CENTER	R (HPOS)	28
2-1. Chassis Assy	Removal	17		LIN), V. CORRECTION (VSC	
•	ion		5. SAFETY RE	LATED ADJUSTMENTS	29
	oval		6. DIAGRAMS	•	
2-4. F Board Reme	oval	17	6-1. Block Dia	agrams (1)	31
2-5. Picture Tube l	Removal	18	Block Dia	agrams (2)	33
3. SET-UP ADJUST	TMENTS		6-2. Circuit Be	oards Location	36
BEAM LANDING	j	19	6-3. Printed W	Viring Board and Schamatic Dia	agrams 36
			A Board	***************************************	39
	and Vertical Static Conver		• C Board		43
• •		_	• F Board	·	43
	onvergence Adjustment		6-4. Semicono	luctions	45
-	er Convergence Adjustme		7. EXPLODED	VIEWS	
			7-1. Chassis	***************************************	46
	ITING THE SERVICE		8. ELECTRICA	L PARTS LIST	47
		23			
				(ATTENTION)	
` '	E ADJUSTMENTS			DECONNECTE LE CAP DE L'A	
4. CIRCUIT ADJUS				NODE DU TUBE CATHODIQU AP AU CHASSIS METALLIQUE	
ELECTRICAL AD	DJUSTMENTS BY REM		OU AU COUCI	HE DE CARBONE PEINTE DU AU BLINDAGE DU TUBE CA	SUR LE TUBE
COMMANDER	(OA)ITION	24		ATTENTION	
ANODE CAP TO TH	(CAUTION) E ANODE OF THE PICTUR HE METAL CHASSIS, C ON THE CRT, AFTER	RT SHIELD, OR	PROVENANT	ATTENTION!! ER TOUT RISQUE D'ELE D'UN CHÁSSIS SOUS TEUR D'ISOLEMENT DOIT ETR	TENSION, UN

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD. BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK! ONTHE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND INTHE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL, FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE! SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorlyü]soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are ügpinched" or contact highü wattage resistors.
- 3.Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- 4.Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- 5.Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- 6.Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- 7. Check the condition of the monopole antenna (if any).
 Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- 8.Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- 9.Check the antenna terminals, metal trim, tigmetallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

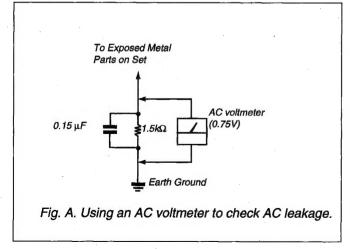
LEAKAGE TEST

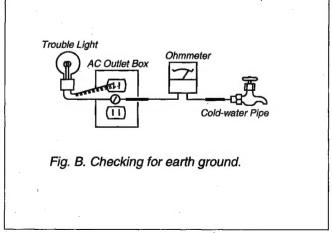
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- 1.A commercial leakage tester, such as the Simpson 229 or RCA WTü]540A. Follow the manufacturers' instructions to use these instruments.
- A batteryü]operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3.Measuring the voltage drop across a resistor by means of a VOM or batteryü]operated AC voltmeter. The üglimit" indication is 0.75V, so analog meters must have an accurate lowü]voltage scale. The Simpson 250 and Sanwa SHü]63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A coldü]water pipe is guaranteed earth ground; the coverü]plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earthü]ground, verify that it is at ground by measuring the resistance between it and a coldü]water pipe with an ohmmeter. The reading should be zero ohms. If a coldü]water pipe is not accessible, connect a 60ü]100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)





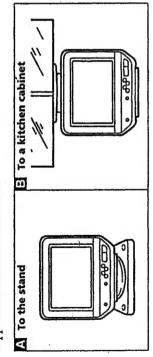
SECTION 1 GENERAL

& Setting Up

Setting up the KV-9PT50

Attaching the TV

You can install the TV to the stand (bracket) in two ways with the supplied dual mode swivel bracket.

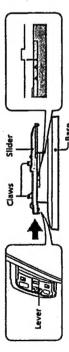


Caution

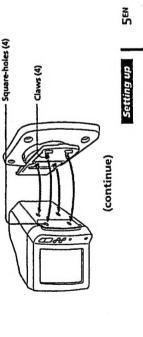
Do not install the TV with wet hands, or touch the TV and bracket with wet hands.

I To attach the TV to the stand

While holding up the lever, push the slider in the direction of the arrow.

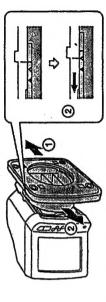


claws of the slider fit in the square-holes on the bottom of the TV. Turn the TV sideways, attach the stand to the TV so that the four



The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

① Push the base in the direction of the arrow ① until the two rear claws on the slider touch the back of the square-holes on the bottom of the TV. m



② To lock the bracket and the TV, pull the slider in the direction of the arrow ② while holding up the lever without moving the

4 You can rotate the TV about 60° in either direction.



To attach the TV to a kitchen cabinet

bracket attachment instructions differ depending on the cabinet type (flush or overhanging). Follow the instructions that match your cabinet installation bracket using the attachment parts shown below. The To install the TV to a kitchen cabinet, attach the supplied shelf

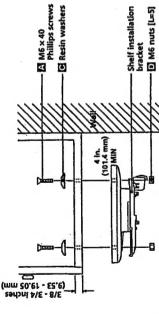
Attachment parts (supplied)

A Symptoming	8	()
M6 x 40 Phillips screws (4)	M6 × 70 Phillips screws (4)	Resin washers (4)
@ •		
Ð		7
M6 nuts [L=5] (4)	Spacers [L=30] (4)	Stopper (1)

outside), to ensure the proper 4 inches (101.4 mm) distance between the wall and the bracket. Drill 4 holes (diameter: 9/32 inches, 7 mm) where indicated on the pattern. Attach the shelf installation bracket as shown Lay the supplied paper pattern on the base of the cabinet (inside or on the following pages.

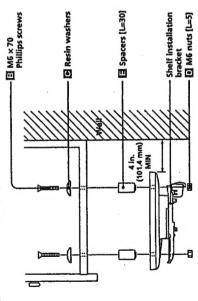
GEN

Attaching to a flush type cabinet



- You cannot attach the shelf installation bracket to a cabinet with a base thickness of
 - less than 3/8 inches (9.53 mm). If the cabinet base thickness is over 3/4 inches (19.05 mm), purchase longer screws (#10-32) and nuts at a hardware supply store.

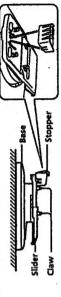
Attaching to an overhanging type cabinet



- The spacer is not needed for the cabinet with an overhang of 0-1 inch (0-25.4
- . The spacer is needed for the cabinet with an overhang of 1-2 inches (25.4 51
- \bullet You cannot attach the shelf installation bracket to cabinet with an overhang of over 2 1/8 inches (51 mm).

- When using the shelf installation bracket to attach the 1v to a katchen shelf or cabinet, be sure that the bracket is attached level to the shelf or cabinet base. If the TV is installed to a bracket that is not level, it may fall from the bracket.
 To reduce the risk of fire, do not place any heating or cooking appliance beneath TV.

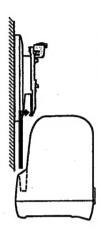
4 Attach the stopper to the slider.



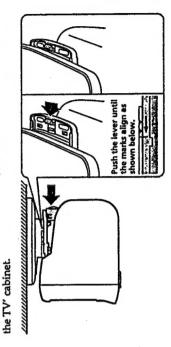
2 While holding down the lever, pull the slider in the direction of the arrow.



bracket base fit in the square-holes located inside of the TV's knob. Attach the TV temporarily to the slider so that two claws of the M



4 While holding down the lever, push the slider in the direction of the arrow so that the claws of the stopper fit in the ventilation hole of

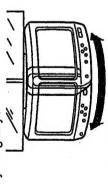


Make sure that the bracket and the TV are locked completely.

7EN

Setting up

5 You can rotate the TV about 60° in either direction. Be sure to rotate the TV slowly and gently.



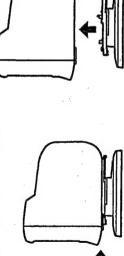
Caution

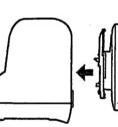
· Take care that a child does not hang on the TV or pull it forcibly.

Removing the TV

I To remove the TV from the stand

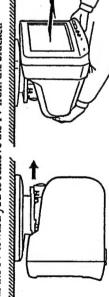
- While holding up the lever, push the slider in the direction of the arrow to unlock the bracket and the TV.
 - 2 Remove the TV from the stand.





■ To remove the TV from the bracket

- While holding down the lever, pull the slider in the direction of the arrow to unlock the bracket and the TV.
 - 2 Pull the TV toward you to remove the TV from the bracket.

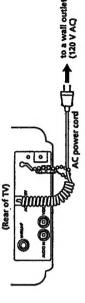


Caution

• If you do not support the TV as illustrated, the TV may fall when it separates from the bracket. Setting up

9EN

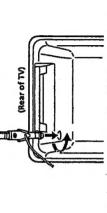
Using house current



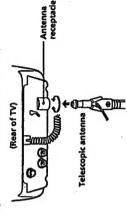
Connecting the supplied telescopic antenna

I Insert the antenna into the receptacle on the TV, and twist to ensure a secure fit.

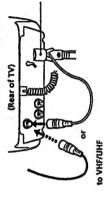
When attaching the TV to the stand (table use)



When attaching the TV to the kitchen cabinet



2 Attach the antenna connector to the VHF/UHF terminal.



Setting up 10EN

Setting up the KV-9PT60

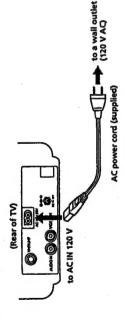
Insert the antenna into the receptacle on the TV, and twist to ensure

a secure fit.

(Rear of TV)

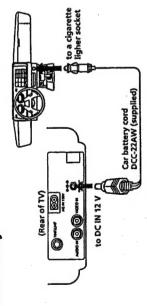
Connecting the supplied telescopic antenna

Using house current



2 Attach the antenna connector to the VHF/UHF terminal.

Using a car battery



- For car use, the TV is designed for negative ground 12 V DC operation only.
 Use only the supplied car battery cord manufactured by Sony. Polarity of the plugs of other manufactures may be different.



• When you aren't using the TV, remove the car battery cord from the eigarette lighter socket.

Connections

Select one of the two ways to connect the TV to the antenna and/or cable system. It is recommended to connect an outdoor antenna or a cable TV system for better picture quality.

Connecting to outdoor antenna

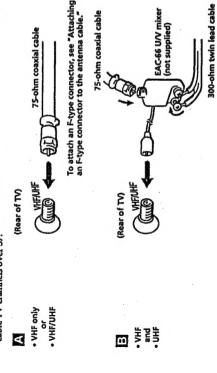
Connect the antenna cable to the VHF-UHF antenna terminal. If the antenna cable cannot be connected directly to the jack, follow one of the diagrams below, depending on the type of cable you have.

Notos

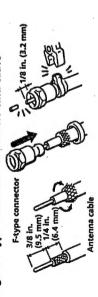
- Do not use tools to attach the cable to the VHF/UHF terminal. Doing so may
- damage the terminal.

 Most VHF/UHF combination anternas have a signal splitter. Remove the splitter
- before attaching the appropriate connector.

 If the U/V mixer is used, snow and noise may appear in the picture when viewing cable TV channels over 37.



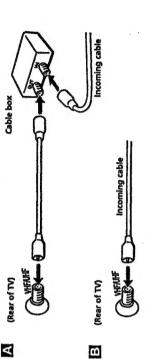
Attaching an F-type connector to the antenna cable



Setting up 13EN

Connecting to cable TV system

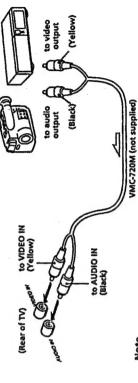
If your cable company requires you to connect a cable box, follow example \square . If not, follow example \square .



Connecting video equipment

Before connecting, turn off the power on all equipment.

Connecting a VCR or 8mm video camera



Note
When connecting stereo equipment, use the VMC-920MS (not supplied) connecting cable (stereo ←→ monaural).

Watching a VCR picture

- 1 Turn on the TV.
- 2 Press TV/VIDEO so that "VIDEO" appears on the screen.

To return to TV mode

Press TV/VIDEO so that a channel number appears on the screen.



Setting up the remote commander

Install two size AA batteries (supplied) as shown.



- Match the + and on the batteries to the diagram inside the battery compartment.
 If you do not use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
 Do not handle the remote commander roughly. Do not drop it, step on it or let it
- get wet.

 Do not place the remote commander in direct sunlight, near a heater, or where the humidity is high.

can also use the controls on the TV if they have the same name as those instructions in this manual are based on the remote commander. You on the remote commander.

Setting cable TV on or off

If the TV is connected to a cable TV system, then the factory setting CABLE ON is correct. If the TV is not connected, set CABLE to OFF.

If more than 90 seconds elapse after you press a button, the menu disappears automatically.

1 Press MENU.

The main menu appears.





Press Δ + or ∇ - on the remote commander to move the cursor (\triangleright) on the screen to SET UP. To select that function, press RETURN. The SET UP menu appears. 7









If CABLE appears in black, the TV is set to video input and CABLE cannot be selected. Press TV/VIDEO so that a channel number appears.

Set CABLE to ON or OFF. M

(1) If the cursor is not beside CABLE, press $\Delta +$ or $\nabla -$ to move the cursor and press RETURN.









4 Press MENU to return to the original screen.



Presetting channels

TV channels can be preset easily; first, store all the receivable channels automatically by following the procedure below. Next, erase unwanted channels or add additional channels. Preset channels during the day rather than late at night, when some channels may not be broadcasting.

7 Press MENU.

2 Press Δ + or ∇ - on the remote commander to move the cursor (\blacktriangleright) on the screen to SET UP and press RETURN. The SET UP menu appears.







If AUTO PROGRAM appears in black, the TV is set to video input and AUTO PROGRAM cannot be selected. Press TV/VIDEO so that a channel number

Select AUTO PROGRAM. M

Press Δ+ στ ∇- to move the cursor (►) to AUTO PROGRAM.





(2) Press RETURN.

AUTO PROGRAM

"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

Setting up

Erasing or adding channels

- 1 Press MENU.
- 2 Press Δ+ or ∇- to select SET UP and press RETURN.
- Press Δ + or ∇ to select CH ERASE/ADD and press RETURN. m
- 4
- To erase an unwanted channel: (1) Press CH +/- to select the channel you want to erase. (2) Make sure the cursor (▶) is beside ERASE.

Channel to be erased Select the channel Use channel CH ERASE/ADD

(3) Press RETURN.

The indication "-" appears beside the channel number, showing that the channel is erased from the preset memory.

Note
You can select the erased channel using the 0-9 buttons.

To add a channel that you want:

(1) Press 0-9 buttons to select the channel you want to add and press

(2) Press ∆+ or ∇- to select ADD.

Channel to be added Select the channel Use CHENE Exited CH ERASE/ADD

(3) Press RETURN.

The indication "+" appears beside the channel number, showing that the channel is added to the preset memory.

- 5 To erase and/or add other channels, repeat step 4.
- 6 When finished, press MENU.

If you crase or add a VHF or UHF channel, the cable TV channel with the same number is also crased or added, and vice versa.

19en Setting up

@Available Features

Functions

Note If "VIDEO" appears on the screen, press TV/VIDEO so that a channel number

Selecting a channel directly

Press the 0-9 buttons to select a channel. Or press ENTER after entering the channel for immediate selection.

9999 999 999

To scan through channels

Press CH +/~ until the channel you want appears.



Switching quickly between two channels

Press JUMP.

The channel you watched previously appears. Pressing JUMP again switches back to the original channel.



Adjusting the volume

Press VOL +/- to adjust the volume.



Available Features

Muting the sound

Press MUTING.

"MUTING" appears on the screen.



To restore the sound, press MUTING again, or press VOL 4.

Displaying on-screen information

Use this feature to check your channels. Press DISPLAY.



To cancel the display, press DISPLAY again.

Setting the Sleep Timer

The TV stays on for the length of time specified and then shuts off

Press SLEEP repeatedly L....1 the time (minutes) wanted appears. Each time you press SLEEP, the time changes as follows: $30 \div 60 \div 90 \div$ OFF. "SLEEP" appears on the screen one minute before the TV power is shut



To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP OFF" appears, or turn the TV off.

Listening with headphones

Plug the headphones into the headphone jack.

The sound from the speaker is shut off and the monaural sound will be heard from the headphones. To adjust the headphones volume, press VOL +/-.



Available Features

21EN

When watching TV programs, the quality of the picture can be adjusted to suit your taste.

- 1 Press MENU.
- 2 Make sure the cursor (▶) is beside VIDEO and press RETURN.



Select the item to adjust. See chart on following page for details on To adjust brightness, press ∆+ or ∇- to select BRIGHT and press results of adjustments. For example: m









4 Adjust the level:

(1) Press Δ + or ∇ - to adjust the level.





(2) Press RETURN.

The new setting appears in the VIDEO menu.

To adjust other items, repeat steps 3 and 4 above. n

22EN

To restore the factory settings

Press RESET while the VIDEO menu is displayed. All the settings except PICTURE are restored to factory settings.

Adjusting the picture when watching video tapes

You can adjust the picture of the video input as well. These settings are stored separately from those for the TV picture. To adjust the video picture, first press TV/VIDEO to set to video input, then follow the procedure on the previous page.

Customizing the channel number butto

number button for each channel. This feature allows the easy selection of your favorite channels by name. For example, select channel 17 "ESPN," and assign the channel number 2 button to it. Up to 12 channels can be captioned and assigned to a specific channel

Setting captions to a favorite channel

- 1 Press MENU.
- 2 Press Δ + or ∇ to select SET UP and press RETURN.
- 3 Press △+ or ∇− to select CH CAPTION/GUIDE and press RETURN.

Ex I CH CAPTION/GUIDE 000@ 0000 000@ Use 中国电



4 Press RETURN again.



Ŋ

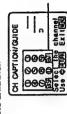
Press Δ + or ∇ - to select a channel guide number (chosen number will appear in red) and press RETURN. For example, select 2 as the channel guide number. Numbers 0-9, DISPLAY and ENTER buttons are available for use as a channel guide number. The channel number button you select will be the one you press to call up your favorite channel.











6 Press △+ or ∇- to select the channel that you want to caption and press RETURN. For example, select channel 17.







Ex les CH CAPTION/GUIDE 0002 : 0000 : 00

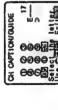
Available Features

- Enter the letters (up to four) to caption the channel: (1) Press $\Delta +$ or $\nabla -$ to select the first letter.
- Each time you press $\Delta +$ or $\nabla -$, the letter changes as shown below.

0--1-...-9-A-B--..-Z--&-/--- [blank space)



(2) Press RETURN.



0000

(3) Repeat steps (1) and (2) to select the remaining letters and press RETURN.



CH CAPTION/GUIDE 000<u>0</u> 0000 000<u>0</u> Use of Fig

8 Repeat step 4 to 7 to caption other channels.

To cancel a setting

Select the channel you want to cancel in step 5, then press RESET.

Selecting a captioned channel

- Press CH GUIDE.
 The CHANNEL GUIDE menu appears showing channel captions and the corresponding channel number buttons.
- 2 Press a channel number button, the DISPLAY or ENTER button to select the channel you want.

To cancel the CHANNEL GUIDE menu

Press CH GUIDE again.

Blocking out a channel (CHANNEL BLOCK)

This feature allows you to prevent children from watching unsuitable programs.

- Press MENU.
- Press Δ+ or ∇- to select SET UP and press RETURN.
 Press Δ+ or ∇- to select CH BLOCK and press RETURN.







4

Select the channel you want to block. (1) Press Δ + or \overline{V} - to select program 1 or 2 and press RETURN. The selected channel indication turns red.









(2) Press A+ or V- to select the channel you want to block and press RETURN.

Select a program CHANNEL BLOCK 244 244 244

5 Repeat step 4 to 5 to block other channels.

If you select the blocked channel when watching the TV, "BLOCKED" appears and the picture is blocked and the sound is muted.

To cancel a channel block

Press RESET in step 3.

26en

@Additional Information

Troubleshooting

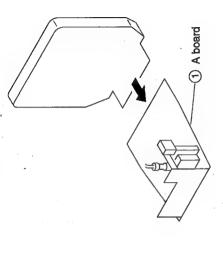
Problem	Adjustment
Poor or no picture (screen lit), good sound	 Adjust PICTURE in the VIDEO menu. Adjust BRIGHT in the VIDEO menu. Check antenna/cable connections.
No picture (screen not lit), no sound	 Make sure the power cord is connected securely. Check to see if the TV/VIDEO setting is correct. When watching Ty, set to TY, and when watching video tapes, set to VIDEO or the channel you use for watching video. Try another channel. It could be station trouble.
No color	 Adjust COLOR in the VIDEO menu. Black and white programs cannot be seen in color.
Only snow and noise appear on the screen	 Check the CABLE setting in the SET UP menu. Check the antenna / cable connection. Make sure the channel is broadcasting programs.
Dotted lines or stripes	 Adjust the antenna. Move the TV away from noise sources such as cars, neon signs, and hair-dryers.
Double images or ghosts	 Use a highly directional outdoor antenna or a cable TV cable (when the problem is caused by reflections from nearby mountains or tall buildings).
The picture is distorted (DC operation)	• When the car battery voltage drops too low, the picture may be distorted. Use the TV with the engine running.
Cannot operate menu	• The menu disappears automatically when 90 seconds elapse after you priess a button. • If the menu items appear in black, the TV is set to video input and you cannot operate the menu. Press TV/VIDEO until a channel number appears.
The remote commander does not operate	 Insert the batteries in the remote commander with the correct polarity. Replace the batteries with new ones if they are weak. If there is a fluorescent light close to the TV, move it at least 3-4 feet away from the TV.
The TV needs to be cleaned.	• Clean the TV with a soft dry doth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.

SECTION 2 DISASSEMBRY

2-3. A BOARD REMOVAL

(1) Six screws

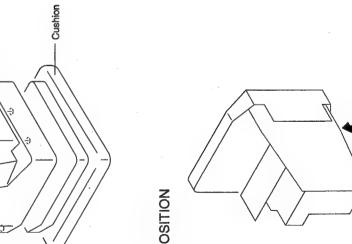
2-1. CHASSIS ASSY REMOVAL



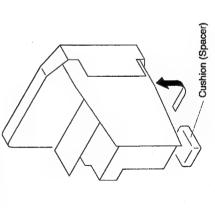
2 Rear

2-4. F BOARD REMOVAL

(KV-9PT60 only) -(5) F board







Two screws (+BVTP 3x12) (1)-

2)Three claws

(3) Termonal board bracket

2-5. PICTURE TUBE REMOVAL

REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis. CRT chield or carbon painted on the CRT, after removing the anode.



(Tapping screw 5)

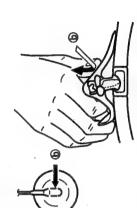
(2)Chassis assy

(6) Four screws

@ Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in sharp shaped material! the rubber.

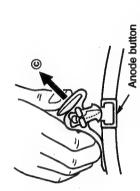
 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.

① Turn up one side of the rubber cap in the



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (D).

5) Deflection yoke



8 Picture tube

Anode cap

ber cap and pulling up it in the direction of ③ When one side of the rubber cap is sepacap can be romoved by turning up the rubrated from the anode button, the anodethe arrow @.

•REMOVING PROCEDURES

•HOW TO HANDLE AN ANODE-CAP ① Don't hurt the surface of anode-caps with

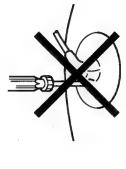


direction indicated by the arrow (a).

(7) Picture tube shield

3C board

4 Neck assy





SECTION 3 SET-UP ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER	N AND SHAPE
The following adjustments should be made when a complete realignment is required or a new picture tube is installed. These adjustments should be performed with rated power supply voltage unless otherwise noted.				Purity magnet	
The controls and switch should be set as follows unless otherwise noted: PICTURE control				B B B B B B B B B B B B B B B B B B B	
1. Input a white pattern signal with the pattern generator. 2. Position neck ass'y as shown in Fig. 3. Loosen the deflection yoke mounting screw, and set the purity control to the center.	White Pattern		Purity Control	Purity control corrects this area	Disk magnets or restable disk magnets correct these arears(a-d).
 4. Turn the green pattern signal of the pattern generator to green. 5. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are at the sides evenly. 6. Move the deflection yoke forward, and adjust so that the entire screen becomes green. 7. Switch over the raster signal to red and blue and confirm the condition. 8. When the position of the deflection yoke is determined, tighten 	Green Pattern	· · · · · · · · · · · · · · · · · · ·	Deflection Yoke	Deflection yoke positioning corrects these areas.	
it with the deflection yoke mounting screw. When landing at the corner is not right, adjust by using the disk magnets.			Disk Magnets	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	

PostTion AND PROCEDURE AND SIGNAL POSTTION LOCATION SS control to minimum. The right of the convergence of points are on top of each other at the cent of the magnet and adjust static convergence by magnet and adjust static convergence by magnet is moved in the direction of arrow green and blue dots move as shown below. EQUIPMENT TEM AND SIGNAL AND	ILLUSTRATION AND SHAPE AND NUMBER	SATATA WATATA WATATA
AND SIGNAL AND SIGNAL Dot Pattern to that the at the at the below.	ADJUSTMENT LOCATION	V. STAT Magnet V. STAT Magnet
AE A A Dot Dot o that the at the at the below.	MEASUREMENT POSITION	
perform FOCUS, V. LIN and V. SIZE SSS control to minimum. em signal. d Vertical Static Convergence at Vertical Static Convergence divertical Static Convergence at Vertical Static Convergence biue points are on top of each other at the center of ntally), adjust the V.STAT magnet so that the blue points are on top of each other at the ceen. magnet and adjust static convergence by ing the V.STAT magnet. iic magnet is moved in the direction of arrow green and blue dots move as shown below.	EQUIPMENT AND SIGNAL	Dot Pattern
ADJUST CONVERGENCE Preparation: Before starting, adjustments. Set BRIGHTINI Feed in dot patt (1) Horizontal an Adjustment 1. (Moving vertice green, and blue the screen. 2. (Moving horizored, green, and center of the scr Tilt the V.STAT opening or closis 3. When the V-star (a and ©, red, g (b) and (c) red, g (c) and (c) a	ADJUSTMENT ITEM AND PROCEDURE	Preparation: • Before starting, perform FOCUS, V. LIN and V. SIZE adjustments. • Set BRICHTINESS control to minimum. • Feed in dot pattern signal. (1) Horizontal and Vertical Static Convergence Adjustment 1. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen. 2. (Moving horizontally), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen. - Tilt the V.STAT magnet and adjust static convergence by opening or closing the V.STAT magnet. 3. When the V-static magnet is moved in the direction of arrow (a) and (a), red, green and blue dots move as shown below.

ILLUSTRATION AND SHAPE AND NUMBER	RG B R G B R G B		mo cro mo cro cro		Neck assy V-STAT Magnet	Purity Magnet		 -			
ADJUSTMENT LOCATION		BMC Magnet		, , , , , , , , , , , , , , , , , , ,					er e		
MEASUREMENT POSITION						•			-		
EQUIPMENT AND SIGNAL											
ADJUSTMENT ITEM AND PROCEDURE		 Operation of BMC Magnet The respective dot positions resulting from moving each 	magnet interact, so be sure to perform adjustment while tracking.	Use the V-static tabs to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).	Y separation axis correction magnet adjustment Receive a cross hatch signal, and adjust PICTURE and BRIGHTNESS.	2. Adjust the deflection yoke to the upright condition when it hits the CRT.	4. Keturn the deflection yoke to its original position.				

ILLUSTRATION AND SHAPE AND NUMBER		a-d: screen-comer misconvergence c d d Permalloy assembly	FOCUS
ADJUSTMENT LOCATION	Deflection Yoke	Permalloy Ass'y	FOCUS control
MEASUREMENT POSITION			
EQUIPMENT AND SIGNAL			
ADJUSTMENT ITEM AND PROCEDURE	 (2) Dynamic Convergence Adjustment Preparation: Before starting perform Horizontal and Vertical static convergence Adjustment. 1. Slightly loosen deflection yoke screw. 2. Remove deflection yoke spacers. 3. Move the deflection yoke for best convergence as shown below. 4. Tighten the deflection yoke screw. 5. Install the deflection yoke spacers. 	(3) Screen-corner misconvergence a-b: screen-corner misconvergence Affix a Permalloy ass'y corresponding to the misconverged areas	FOCUS 1. Receive the broadcasting picture and adjust the picture quarity with the menu. 2. Adjust FOCUS control(FBT) for best picture.
	- :	22 —	-

ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
METHOD OF SETTING THE SERVICE ADJUSTMENT SERVICE MODE PROCEDURE			•	SERVICE ADJUSTMENT MODE IN
 Standby mode. (Power off) DISPLAY → [5] → VOL (+)] → POWER on the *Remote Commander. Press each button within a second. The CRT display the item Being adjusted. 				U
 Press 1 or 4 on the Remote Commander to select the item. Press 3 or 6 on the Remoto Commander to change the data. Press MUTING then ENTER to write into memory. Press 8 then ENTER on the Remote Commander to initialize. Turn set off and on to exit. 			PICTURE	SERVICE ADJUSTIMENT MODE MEMORY SERVICE WRITE MUTING Green Hearter Hearter Red
 Input a dot pattern signal. Adjust PICTURE, BRIGHTNESS controls. Connect R, G and B of the C board cathode to the oscilloscope. Adjust G2 (FBT) volume to the value below. Press MUTING and ENTER to write the data in the memory. 	Dot pattern Oscilloscope	cathodes	BRIGHTNESSnormal S BRT G CUT B CUT RV702 SCREEN (G2)	_
WHITE BALANCE ADJUSTMENTS 1. Input a entire white signal. 2. Set to service adjustment mode. 3. Set the PICTURE, BRIGHTNESS controls. 4. Adjust with S BRT if necessary. 5. Select G CUT and B CUT with 1 and 4.	Entire White Pattern		PICTURE	GND
 Adjust with [3] and [6] for the best white balance. Set the PICTURE and BRIGHTINESS to maximum. Select G AMP and B AMP with [1] and [4]. Adjust with [3] and [6] for the best white balance. Write into the memory by pressing [MUTING] then [ENTER]. 			B CUT PICTURE	

SECTION 3 CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

Use of Remote Commander (RM-Y116) can be performed circuit adjustments about this model.

NOTE: Test Equipment Required.

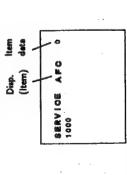
- 1. Pattern Generator
- 2. Frequency counter
- 3. Digital multimeter
- 4. Audio OSC

1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

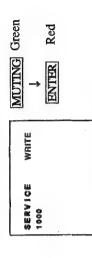
- 1. Standby mode. (Power off)
- 2. <u>DISPLAY</u> → [5] → [VOL (+)] → [POWER] on the Remote Commander. (Press each button within a second.)

SERVICE ADJUSTMENT MODE IN



- 3. The CRT displays the item Being adjusted.
- 4. Press [1] or [4] on the Remote Commander to select the item.
- 5. Press 3 or 6 on the Remote Commander to change the data.
- 6. If you want to recover the latest values press [0] then [ENTER] to lead the memory.
- 7. Press MUTING then ENTER to write into memory.

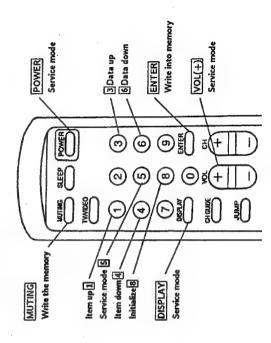
SERVICE ADJUSTMENT MODE MEMORY



2. MEMORY WRITE CONFIRMATION METHOD

- After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2. Turn the power switch ON and set to Service Mode.
- 3. Call the adjusted items again, confirm they were adjusted.

3. ADJUST BUTTONS AND INDICATOR



4. AN ITEM OF ADJUSTMENTS

4

Ave. data	0	57	15	38	7	4 0	ស្ន	2 4	~~	15	15	7	32	25	28	3 63	7	>		-	-	>	0	0
Data range	0~3	0 ~ 7F	0 1 1	- က	0 ~ 0	1 1	0 °	≀ ≀	0 ~ 0 7 ~ 0	1	 T I	≀ ≀	ł	0 0	ł	0 ~ 0 ₩ ~ 0	0 ~ 0F	-	0 ~ 0 . 1	0, 1	0,0	,	0, 1	0, 1
ltem	FC Loop Gain		V. Frequency		V.Liniaruty	PHASE	H. Size	Corner Pin	V. Compensation	Green Amp	Blue Amp	Blue Cut Off	Chroma Trap	Sub Hue	Sub Color	Sub Bright RGB Picture	Sharpness V Pull in Range	0 : normal, 1 : wide	Red Out 0: OFF. 1: ON	reen Out	Blue Out 0: OFF, 1: ON	Abl. Mode 0 : pic+brt, 1 : pic	. +	SD intensity : 0db, 1 : -3
Disp.	AFC	HFRE	VFRE	VSIZ	NIN V	HPOS	HSIZ	CPIN	V CHA	GAMP	BAMF	BCCT	CHO S	SHUE	SCOL	RGBP	SHAP		#6 #	GOFF	BOFF	ADLM	NOTC	DRGB
No.	8	5	88	88	900	36	88	32;	- 2	5	4. rc	9	<u>_</u>	<u>ი</u>	88	22	82	1 (0 % 0 %	27	88	N V	30	93

Note

* Mark: Don't adjust the Service Manu.

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	Disp.	Item	Data range	Ave. data
	DISP	PWN output	0 ~ 3F	4
~	SPOT	Spot killer	0 ~ 0F	00
_	PBLK	Pic blanking	0 ~ 1F	13

5. +B ADJUSTMENTS

ADJUSTMENT ITEM AND PROCEDURE

A BOARD

+B ADJUSTMENT (40V ADJ)

- 1. Set the power source at 130 $^{+2.0}_{-0}$ VAC.
- 2. Input a color-bar signal.
- 3. Connect a digital voltmeter to the pin (9) of CN606.
- 4. Adjust RV601 for 40 ± 0.1 VDC on the digital voltmeter.

F BOARD (KV9PT60 only)

+B ADJUSTMENT (40V ADJ)

- 1. Set the power source at 12 ± 0.5 VDC.
 - 2. Input a color-bar signal.
- 3. Connect a disital voltmeter to the pin @of CN606.
- 4. Adjust RV652 for $40 \pm 0.1 \text{VDC}$ on the digital voltmeter.

+B ADJUSTMENT (9.8V ADJ)

- 1. Set the power source at $12 \pm 0.5 \text{VDC}$.
 - 2. Input a color-bar signal.
- 3. Connect a digital voltmeter to the pin (5) of CN 606.
- 4. Adjust RV 651 for 9.8 ± 0.1 VDC on the digital voltmeter.

ILLUSTRATION AND SHAPE AND NUMBER
ADJUSTMENT LOCATION
MEASUREMENT POSITION
EQUIPMENT AND SIGNAL
ADJUSTMENT ITEM AND PROCEDURE

ADJUSTMENT ILLUSTRATION AND SHAPE LOCATION AND NUMBER	PICTURE COLOR minimum BRIGHTNESS PICTURE 1: ON 0: OFF	R OFF: ON (1) G OFF: OFF (0) B OFF: OFF (0)	PICTURE
MEASUREMENT AL POSITION	PIC	CN301 (D pin R-OUT (A board)	CN301 ③ pin B-OUT (A board) SCOL SHUE
EQUIPMENT AND SIGNAL	Color-Bar Pattern Oscilloscope	Ŭ ଝ	Color-Bar Pattern Oscilloscope B
ADJUSTMENT ITEM AND PROCEDURE	SUB PICTURE ADJUSTMENT (SPIX) 1. Input the color bar signal, and adjust PICTURE, BRIGHTNESS and COLOR. 2. Set to Service adjustment Mode.	 Connect an oscilloscope between the A board connector CN301 (1) pin and ground. Call to item of G OFF and B OFF, set to 0 evel. Select SPIX with [1] and [4]. Adjust with [3] and [6], so that the wave form level is 1.70±0.05Vp-p. Call to item of G OFF and B OFF, set to 1 evel. Write the memory by pressing MUTING then ENTER. 	 SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL) Input a color bar signal, and adjust PICTURE, BRIGHTINESS and COLOR. Connect an oscilloscope between the A board connector CN301 (3) pin and ground. Set to service adjustment mode. Select SCOL with [1] and [4]. Adjust with [3] and [6] for the V1=V4 ± 0.1V. Select SHUE with [1] and [4]. Adjust with [3] and [6] for the V2=V3 ± 0.1V. Write into the memory by pressing [MUTING] then [ENTER].

ILLUSTRATION AND SHAPE AND NUMBER	V. SHIFT(VPOS)	H. CENTER(HPOS)	V. LINEARITY (VLIN) W. CORRECTION (VSCO) W. CORRECTION (VSCO)
ADJUSTMENT LOCATION	VPOS	HPOS	VLIN
MEASUREMENT POSITION			
EQUIPMENT AND SIGNAL	Cross-hatch pattern	Cross-hatch pattern	Cross-hatch pattern
ADJUSTMENT ITEM AND PROCEDURE	V. CENTER ADJUSTMENT (VPOS) 1. Input a cross hatch signal. 2. Set to Service adjustment Mode. 3. Select VPOS with [1] and [4]. 4. Adjust with [3] and [6] for the best vertical center. 5. Write into the memory by pressing MUTING then ENTER.	H. CENTER ADJUSTMENT (HPOS) NOTE: Perform this adjustment after H. FREQUENCY ADJUSTMENT (HFRE). 1. Input a cross hatch signal. 2. Set to Service adjustment Mode. 3. Select HPOS with [1] and [4]. 4. Adjust with [3] and [6] for the best horizontal center. 5. Write into the memory by pressing MUTING then ENTER].	V. LINEARITY(V LIN), V CORRECTION (VSCO) ADJUSTMENT 1. Input a cross hatch signal. 2. Set to Service adjustment Mode. 3. Select VLIN and VSCO with [I] and [4]. 4. Adjust with [3] and [6] for the best picture. 5. Write into the memory by pressing MUTING then ENTER

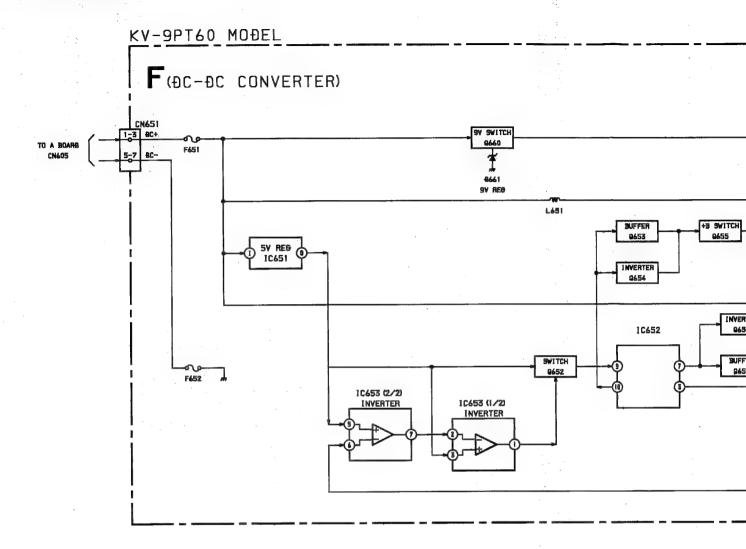
SECTION 5 SAFETY RELATED ADJUSTMENTS

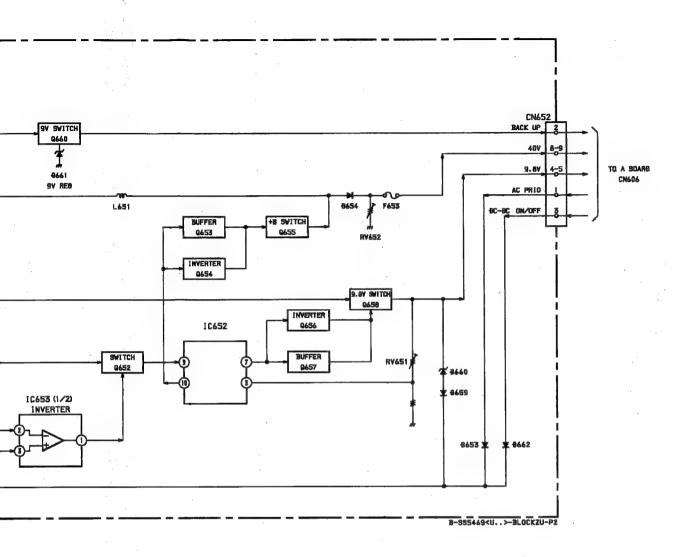
ILLUSTRATION AND SHAPE AND NUMBER					Connector CN 606 pin (9) less than 43.0 VDC.					Connector CN 606 pin (9) less than 43.0 VDC.	
ADJUSTMENT LOCATION		X RV601,R069		PICTURE	BRIGHTNESScenter		: -	M RV652,R670	PICTURE	BRIGHTNESScenter	
MEASUREMENT POSITION		marked parts	IC601, R627, R629, R069, L601		CN 606 pin (9)			✓ marked partsF653, IC652, L654,R667, R668, R670		CN 606 pin (9)	
EQUIPMENT AND SIGNAL				Monoscope signal					Monoscope signal		
ADJUSTMENT ITEM AND PROCEDURE	[A BOARD]	M RV601,R069 B+ MAXIMUM VOLTAG CONFIRMATION AND ADJUSTMENT.	The following adjustments should always be performed when replacing the following components (marked with on the schematic diagram).	 Set the power source at 130 ⁺²⁰₋₀₀ VAC. Receive Monoscope signal. Set the PICTURE and BRIGHTNESS at the initial reset. Aduist RV601 (40VADJ) to maximum. 	5. Confirm is the voltage of the checked terminal of pin (9 (JL7) of CN606 connector is less than 43.0VDC. 6. After confirmation, Readjust RV 601 to obtain 40±0.1VDC.	[F BOARD] (KV-9PT60)	M RV652,R670 B+ MAXIMUM VOLTAG CONFIRMATION AND ADJUSTMENT.	The following adjustments should always be performed when replacing the following components (marked with on the schematic diagram).	 Set the power source at 13.0 - 00 VDC. Receive Monoscope signal. Set the PICTURE and BRIGHTNESS at the initial reset. Adujst RV652 (40VADJ) to maximum. 	 Confirm is the voltage of the checked terminal of pin (9 (JL7) of CN606 connector is less than 43.0VDC. After confirmation, Readjust RV 652 to obtain 40±0.1VDC. 	

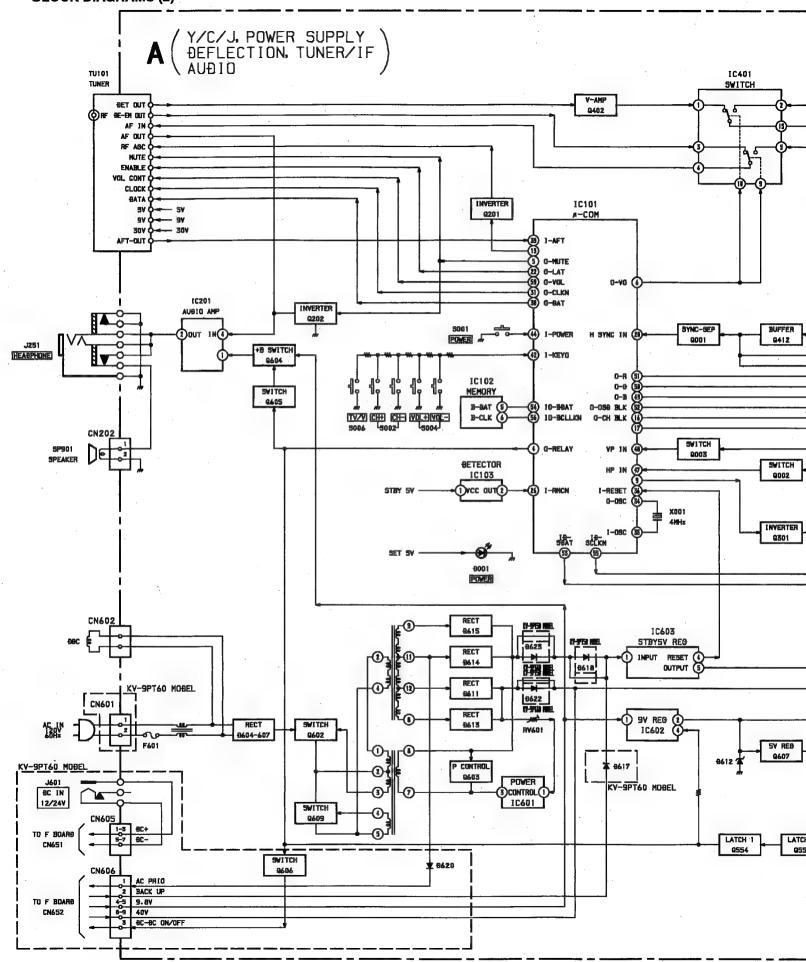
	ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
	 Preparation fore confirmation. 1. Set the power source to 120 ± 1.0 VAC. 2. Receive Monoscope signal. 3. Set the PICTURE and BRIGHTNESS at the reset position. 4. Confirm if the voltage between JL46 (H.PROT) and ground is more than DC 85V. 5. When inputting 12 ± 1.0 VDC at the DC power supply input terminal do the same adjust process 3. and 4. above. (KV-9PT60 ONLY) 	Monoscope signal		PICTURE	
	1. Set the power source to 120 ± 1.0 VAC. 2. Receive all white signal. 3. Using an external DC power supply, apply voltage to JL46 (H.PROT) and ground. 4. Gradually increase the voltage and confirm if the hold-down circuit works (Raster disappears) at less than 113.0VDC. 5. Confirm if ABL current is within 660 ± 50µA.	All white signal	■ marked parts C511, C513, C528, C531, D505, D506, D507, D510, L505, IC502, IC602, Q554, Q555, R511, R519, R520, R523, R525, R527, R557,	■ RV601,R069	#
	(KV-9PT60) HOLD DOWN OPERATION CONFIRMATION. 1. Set the power source to 12 ± 1.0 VDC. 2. Receive a dot signal. 3. Using an external DC power supply, apply voltage to IL46 (H.PROT) and ground. 4. Gradually increase the voltage and confirm if the hold-down circuit works (Raster disappears) at less than 113.0VDC. 5. Confirm if ABL current is within 70 ± 50µA.	Dot signal	R538, R559, R560, R639, R640, T504, DY.		A BOARD TO IC301 (26) PIN R536 Connector a Ammeter to the location of R504 space. After the current measurement, put back the 2 resistors. KV-9PT50/9PT60 : 660 ± 50µA KV-9PT60 : 70 ± 50µA
		,			

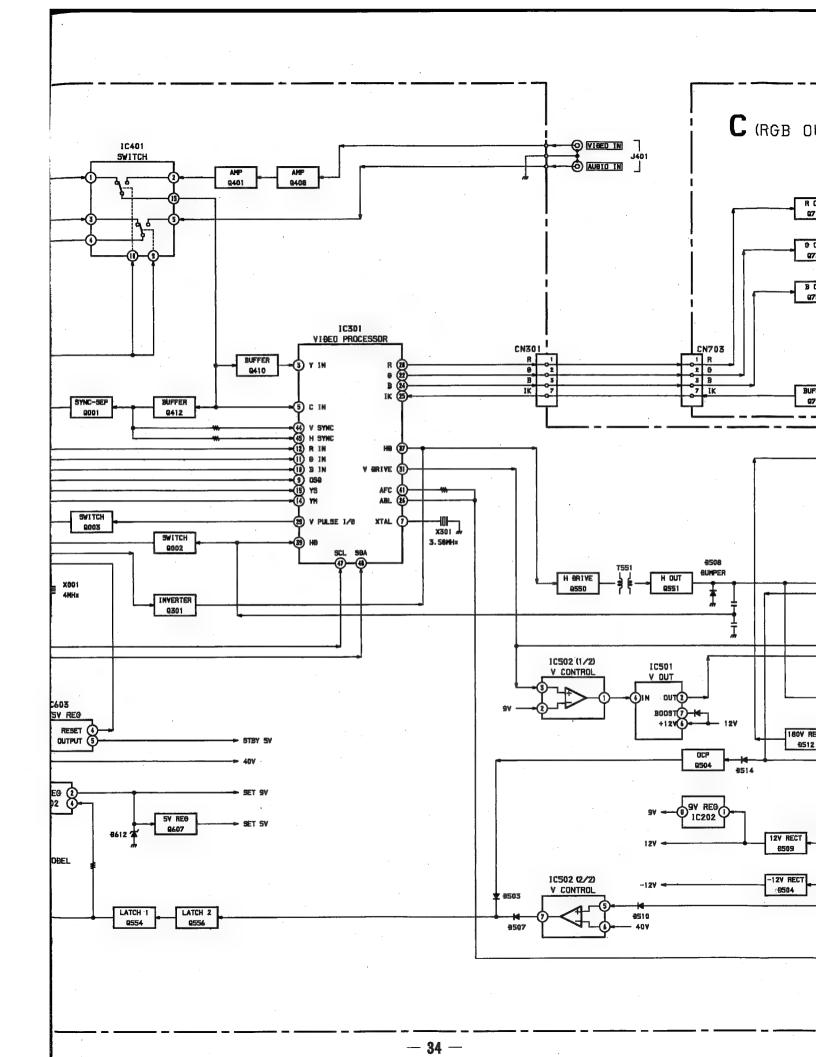
SECTION 6 DIAGRAMS

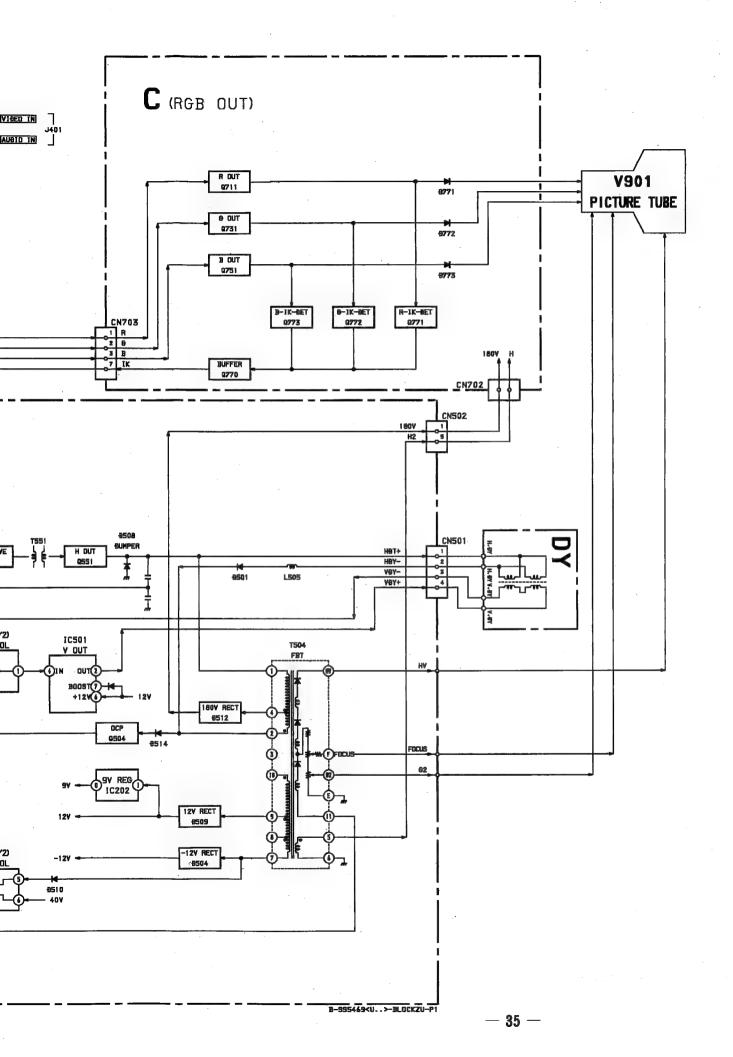
6-1.BLOCK DIAGRAMS (1)



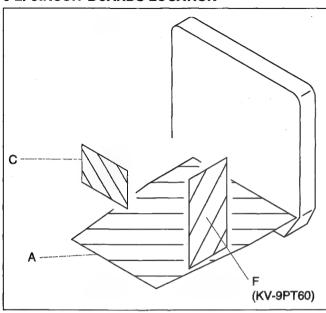








6-2. CIRCUIT BOARDS LOCATION



6-3. PRINTED WRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted, pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- · All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms.
 kΩ=1000Ω. MΩ=1000kΩ
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm
Rating electrical power : 1/4W

- 1/4W in resistance, 1/10W and 1/8W in chip resistance.
- - : nonflammable resistor.
- +w : fusible resistor.
- △ : internal component.
- _____: panel designation and adjustment for repair.
- # : not mounted.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ___ : earth-ground.
- بلر : earth-chassis.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
- Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R069, R670, RV601, RV652 adjustment on Page 29-30.)
- . When replacing the part in below table, be sure to perform the related adjustment.
- · Readings are taken with a color-bar signal input.
- Readings are taken with \blacksquare 10M Ω digital multimeter.
- · Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- S: Measurement impossibility.

Part replaced ()	Adjustment ()
C511, C513, C528, C531, D505, D506, D507, D510, IC502, IC602, L505, Q554, Q555, R511, R519, R520, R523, R525, R527, R557, R558, R559, R560, R639, R640, T504, DY A BOARD	HOLD-DOWN
IC601, L601, R069, R627, RV601 A BOARD	RV601, R069 (B+ MAX)
F653, IC652, L654, R667, R670, RV652	RV652, R670 (B+ MAX)

: B+line.

(Actual measured value may be different).

- signal path. (RF)
- · Circled numbers are waveform references.

Reference information

RESISTOR : RN METAL FILM : RC SOLID

: FPRD NONFLAMMABLE CARBON
: FUSE NONFLAMMABLE FUSIBLE
: RW NONFLAMMABLE WIREWOUND
: RS NONFLAMMABLE METAL OXIDE
: RB NONFLAMMABLE CEMENT
: W ADJUSTMENT RESISTOR

COIL : LF-8L MICRO INDUCTOR

CAPACITOR: TA TANTALUM

: PS STYROL

: PP POLYPROPYLENE

: PT MYLAR

: MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE

: ALB BIPOLAR

: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

Note: The components identified by shading and mark

\(\frac{\hat{\Lambda}}{\text{are critical for safety.}}\) Replace only with
part number specified.

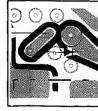
Note: The symbol display is on the component side.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

The symbol I indicate fast operating fuse. Replace only with fuse of same rating as maked.

Le symbole ———indique une fusible a action rapide.

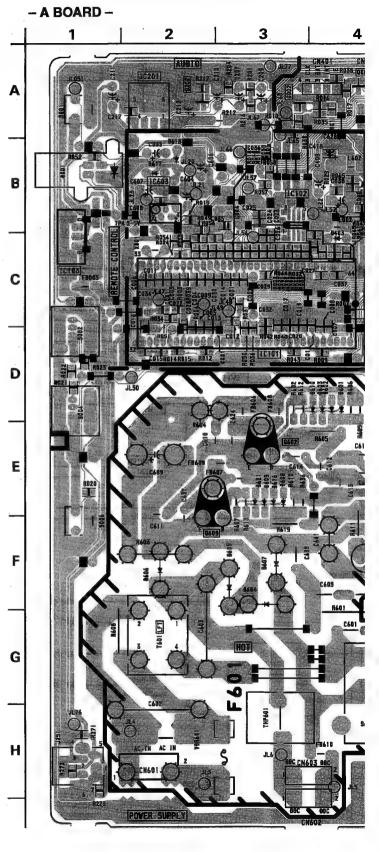
Doit etre remplacee par une fusible de meme yaleur, comme maque.



Y/C/J, POWER SUPPLY, DEFLECTION, TUNER/IF, AUDIO



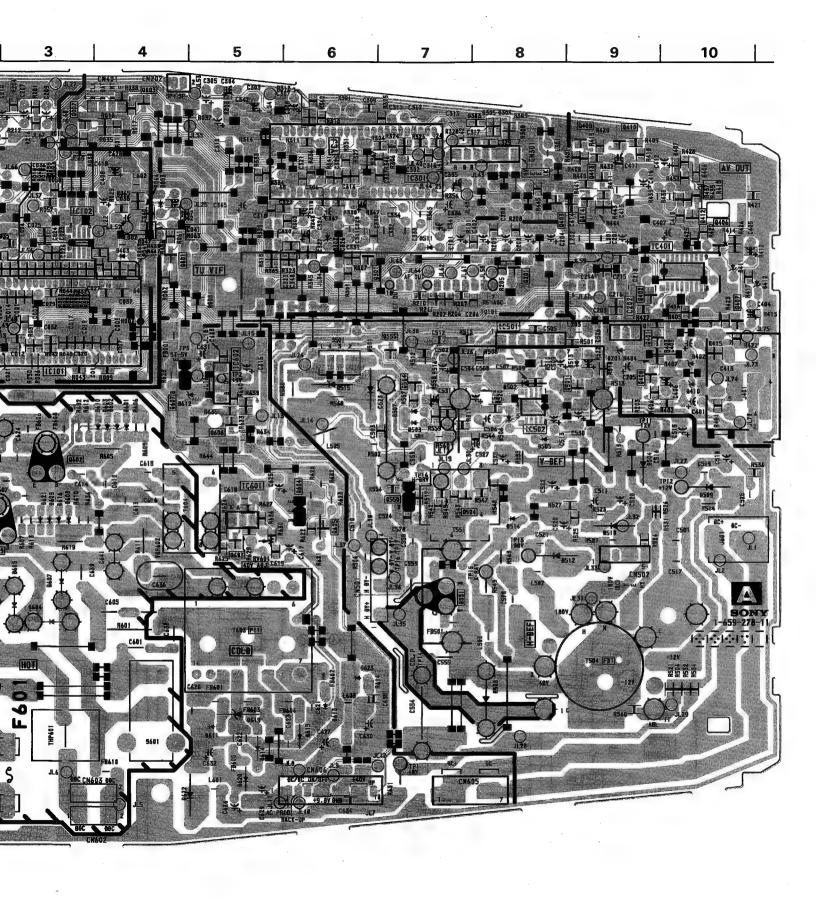
A BOAF	RD LOCA					
	С	D402	D-10			
IC101	C-3	D403	C-4			
IC102	B-3	D410	D-10			
IC103	C-1	D501	D-6			
IC201	A-2	D502	D-8			
IC202	C-9	D503	D-7			
IC301	B-6	D504	E-9			
IC401	C-10	D505	D-8			
IC501	C-8	D506	D-8			
IC502	D-8	D507	D-7			
IC601	E-5	D508	G-7			
IC602	D-5	D509	E-10			
IC603	B-2	D510	E-9			
TRANS	SISTOR	D512	F-8			
Q001	C-4	D514	E-8			
Q002	A-3	D601	D-4			
Q003	A-4	D602	D-4			
Q201	C-8	D603	D-3			
Q202	A-2	D604	F-3			
Q301	C-6	D605	F-2			
Q401	C-9	D606	F-2			
Q402	C-9	D607	F-3			
Q408	D-9	D608	E-3			
Q410	A-9	D609	E-3			
Q412	B-10	D610	D-3			
Q504	E-7	D611	H-5			
Q550	E-7	D612	D-4			
Q551	F-7	D613	G-6			
Q554	D-7	D614	H-5			
Q555	D-6	D615	H-5			
Q602	E-3	D616	E-3			
Q603	F-5	D617	B-2			
Q604	E-5	D618	B-2			
Q605	E-6	D619	G-5			
Q606	D-5	D620	H-5			
Q607	D-4	D621	E-3			
Q609	E-2	D622	H-4			
DK	ODE	D623	G-6			
D001	B-1	VAR	ABLE			
D003	B-4	RESI	STOR			
D201	D-9	RV601	F-5			
D302	B-6					

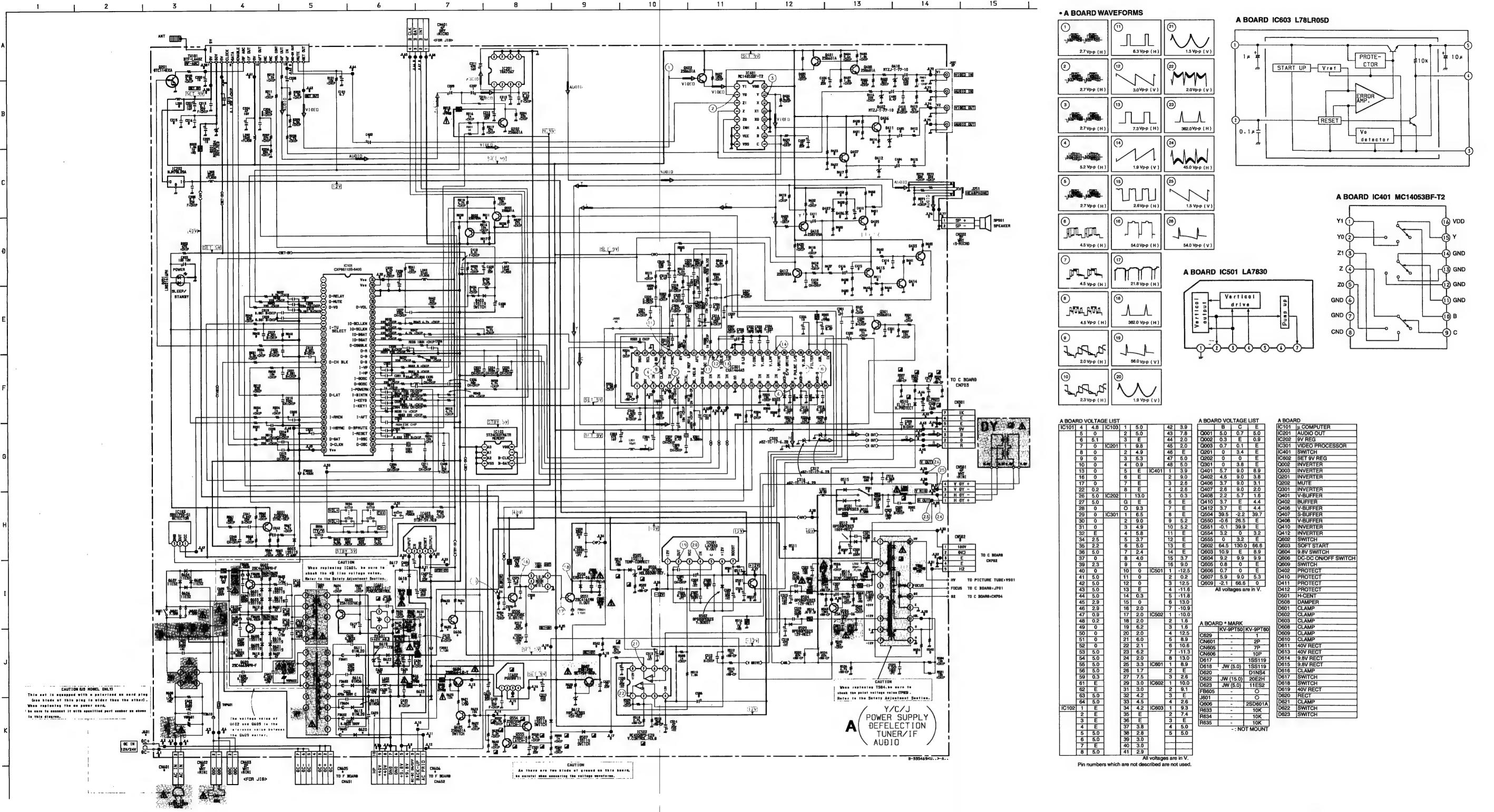




NOTE:

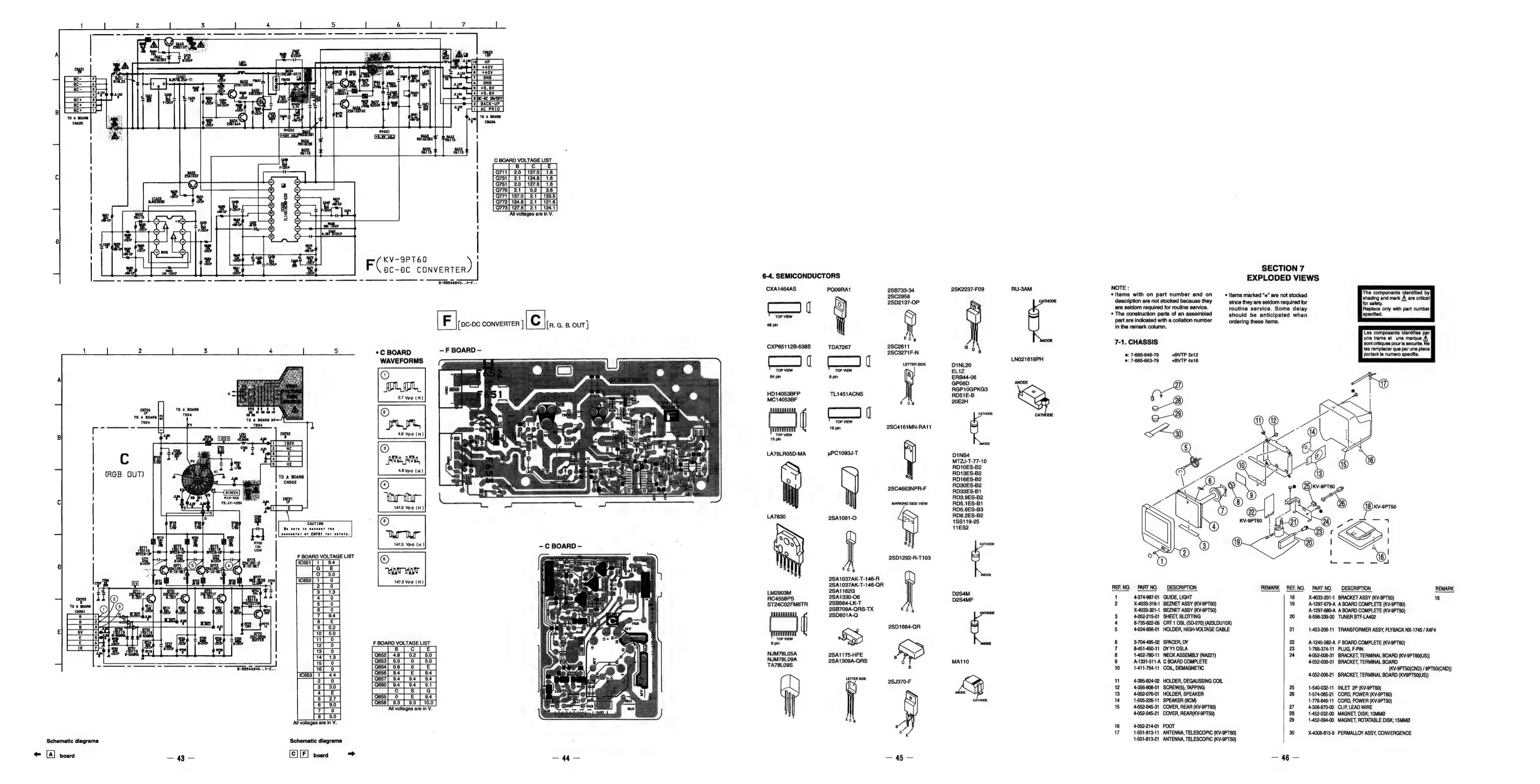
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.





- 40 -

— 41 —



SECTION 8 ELECTRICAL PARTS LIST



NOTE:

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

- The components identified by
 M in this manual have been carefully factory- selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

- CAPACITORS PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

•	Ali	resist
	_	-

All resistors are in ohms

RESISTORS

		• F : no	onflammab	le						
REF. NO.	PART NO.	DESCRIPTION		!	REMARK	REF. NO.	PART NO.	DESCRIPTION	R	EMARK
	* A-1245-582-A	F BOARD, CON	MPLETE (K *******	V-9PT6	60)			<fuse></fuse>		
	4-382-854-11	SCREW (M3X10))		3000001/0000/00100/0//00/99	1-533-223-11	HOLDER, FUSE; F651 HOLDER, FUSE; F651 HOLDER, FUSE; F652		
		<capacitor></capacitor>				F653	<u>5 i 532-779-21</u>	FUSE, MICRO (SECON	DARY) ZAVI	25V
C651 C652 C653 C654 C655	1-163-251-11		100PF	20% 20% 5%	35V 50V 25V 50V 25V	FB651 FB652	1-410-396-41	<pre><ferrite bead=""> INDUCTOR, BEAD FERRITE BEAD INDUCTOR</ferrite></pre>	CTOR 0.45UF	ī
C656 C658 C659 C660 C661	1-163-038-91	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	20% 10% 10%	25V 25V 25V 50V	FB653 FB654	1-410-396-41	INDUCTOR, BEAD FERRITE BEAD INDUC	CTOR 0.45UF	I
C662 C663 C664 C665 C667	1-163-038-91 1-111-125-51 1-163-009-11	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	0.1MF 820MF 0.001MF	10% 20% 10% 10%	50V 25V 50V 50V 50V	IC651 IC652 IC653	8-759-937-36	IC NJM78L05A IC TL1451ACNS IC LM2903M COIL>		
C669 C670 C671 C672 C673	1-128-551-11 1-164-232-11 1-111-063-11 1-126-965-11 1-126-965-11	CERAMIC CHIP ELECT ELECT	22MF 0.01MF 470MF 22MF 22MF	20% 10% 20% 20% 20%	25V 50V 25V 50V 50V	L651 L652 L653 L654	1-412-049-11	COIL, CHOKE 200UH COIL, CHOKE 200UH INDUCTOR 22UH INDUCTOR 22UH		
C675 C676 C677 C678	1-163-038-91 1-107-929-11 1-136-173-00 1-102-038-00	FILM	10MF 0.47MF 0.001MF	20% 5%	25V 50V 50V 500V	Q652 Q653 Q654 Q655 Q656	8-729-026-49 8-729-920-85 8-729-034-86	<transistor> TRANSISTOR 2SA1037 TRANSISTOR 2SA1037 TRANSISTOR 2SD1664 TRANSISTOR 2SK2287 TRANSISTOR 2SA1037</transistor>	AK-T146-R I-QR 7-F09	
CN651 CN652	* 1-774-812-11 1-766-924-11	CONNECTOR, B	OARD TO	BOARI BOARI	D 7P D 10P	Q657	A 8-729-035-38	TRANSISTOR 2SD601. TRANSISTOR 2SJ370-I KTRANSISTOR 2SD2137		
		<diode></diode>		•		1		<resistor></resistor>		
D651 D652 D653 D654 D655	8-719-404-46 8-719-404-46 8-719-057-96	DIODE D1NL20 DIODE MA110 DIODE MA110 DIODE D10SC60 DIODE MA110	M-4012			R651 R652 R653 R654 R655	1-216-684-91 1-216-073-00 1-216-073-00	METAL CHIP 56K METAL CHIP 24K METAL GLAZE 10K METAL GLAZE 10K METAL GLAZE 22K	0.50% 0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
D656 D657 D659 D660 D661	8-719-022-97 8-719-404-46 8-719-110-46 8-719-110-46	DIODE RD13ESI DIODE D2S4MF DIODE MA110 DIODE RD16ESI DIODE RD16ESI	В3			R656 R657 R658 R659 R660	1-216-081-00 1-249-413-11 1-208-806-11 1-216-073-00	METAL GLAZE 22K	5% 5% 0.50% 5%	1/10W 1/4W 1/10W 1/10W
D662 D663		DIODE MA110 DIODE RD33ES	ВІ			R661 R662 R663 R664 R665	1-216-077-00 1-216-073-00 1-208-806-11 1-249-377-11	METAL GLAZE 15K METAL GLAZE 10K METAL CHIP 10K	5% 5% 0.50% 5%	1/10W 1/10W 1/10W 1/4W F 1/10W

KV-9PT50/KV-9PT60 RM-Y116

• The components identified by

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace

Les composants identifies par une trame et une marque \(\triangle \)
sont critiques pour la securite.
Ne les remplacer que par une
piece portant le numero specifie. The componants identified by shading and mark $ext{$\Lambda$}$ are critical for safety. Replace only with part number specified.

				the value		equirea, re Ilv used	piace	piece portant le n	urnero specilie.	specified.		
	REF. NO.	PART NO.	DESCRIPTION			EMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
	R666 R667 R668 R669 ▶ R670	1-216-656-11 1-216-089-91 1-216-085-00	METAL GLAZE 4 METAL CHIP 1 METAL GLAZE 4 METAL GLAZE 3 METAL GLAZE 5	1.6K 17K 33K		1/10W 1/10W 1/10W 1/10W 1/10W	C032 C033 C034 C035 C036	1-126-933-11 1-163-037-11 1-163-113-00	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100MF 0.022MF 68PF	10% 20% 10% 5% 5%	50V 10V 50V 50V 50V
	R671 R672 R673 R674 R675	1-216-075-00	CARBON 2	12K 10K 220	5% 5% 0.50% 5% 5%	1/10W 1/10W 1/10W 1/4W F 1/4W	C037 C038 C040 C041 C042	1-126-935-11 1-163-125-00	CERAMIC CHIP CERAMIC CHIP	470MF 220PF	20% 5% 10% 20%	25V 16V 50V 25V 50V
	R676 R677 R678 R679 R680	1-249-413-11	METAL CHIP 1 CARBON 4 METAL GLAZE 4	10K 170 17K	5% 0.50% 5% 5% 5%	1/4W 1/10W 1/4W F 1/10W 1/4W	C043 C047 C048 C101 C201	1-163-125-00 1-102-110-00 1-102-110-00 1-126-963-11 1-126-933-11	CERAMIC ELECT	220PF 220PF 220PF 4.7MF 100MF	5% 10% 10% 20% 20%	50V 50V 50V 50V 16V
	R681 R682 R683 R684 R685	1-216-687-11 1-216-355-71 1-249-429-11	METAL OXIDE	33K 13 10K	0.50% 0.50% \$% 5% 5%	1/10W 1/10W IW F 1/4W 1/10W	C202 C203 C204 C205 C206	1-126-967-11 1-126-964-11	CERAMIC CHIP ELECT	47MF 10MF	20% 20% 20% 10%	50V 25V 16V 50V 50V
	R686 R687 R688 R689 R690	1-208-806-11 1-249-369-91 1-247-807-31	CARBON 3	10K 13 100	5% 0.50% \$% 5% 5%	1/10W 1/10W 1/4W F 1/4W 1/10W	C207 C208 C209 C210 C211	1-124-903-11 1-124-903-11 1-124-903-11 1-126-963-11 1-126-935-11	ELECT ELECT ELECT	1MF 1MF 1MF 4.7MF 470MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 16V
	R692 R693 R694 R695 R696	1-208-806-11 1-216-073-00 1-216-073-00	METAL GLAZE 3 METAL CHIP 1 METAL GLAZE 1 METAL GLAZE 4	0K 0K 0K	5% 0.50% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	C212 C213 C214 C217 C301	1-163-038-91	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	20% 5%	25V 25V 25V 25V 25V
Į	RV651		<variable rest<br="">RES, ADJ, CERME RES, ADJ, CERME</variable>	ET 10K	·		C303 C304 C305 C306 C307		ELECT		20% 20% 20% 50V 5%	16V 50V 50V
			**************************************	IPLETE (K			C308 C309 C310 C311 C312	1-124-902-00 1-163-099-00 1-126-965-11 1-130-489-00 1-130-489-00	CERAMIC CHIP ELECT FILM	0.47MF 18PF 22MF 0.033MF 0.033MF	20% 5% 20% 5% 5%	50V 50V 50V 50V 50V
		1-923-507-59	A BOARD, COM ************************************	*******` /G24 30M]	M BLK	0)	C313 C314 C315 C318	1-126-934-11 1-163-125-00	CERAMIC CHIP ELECT CERAMIC CHIP	220MF 220PF	5% 10% 20% 5%	50V 50V 16V 50V
		4-053-413-01 4-053-414-01	WIRE UL1007 AW CASE (LOWER), A CASE (UPPER), A	A SHIELD SHIELD			C319 C320 C321	1-163-005-11	CERAMIC CHIP CERAMIC CHIP	470PF	10%	50V 50V 50V
		4-382-854-11	SCREW (M3X10),	P, SW (+)			C322 C323 C324		CERAMIC CHIP CERAMIC CHIP ELECT		10% 10% 20%	50V 50V 50V
	C004 C006 C008 C010 C011	1-163-239-11 1-163-125-00 1-163-009-11	<capacitor> CERAMIC CHIP 2 CERAMIC CHIP 3 CERAMIC CHIP 0 CERAMIC CHIP 0 CERAMIC CHIP 1</capacitor>	33PF 220PF 0.001MF	5% 5% 5% 10% 5%	50V 50V 50V 50V 50V	C325 C326 C327 C328 C329	1-137-370-11 1-163-003-11 1-124-902-00	CERAMIC CHIP	0.01MF 330PF 0.47MF	10% 5% 10% 20% 10%	50V 50V 50V 50V 50V
	C012 C013 C014 C015 C016	1-163-009-11 1-163-125-00 1-163-125-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP 2 CERAMIC CHIP 2 CERAMIC CHIP 2 CERAMIC CHIP 2	0.001MF 220PF 220PF 220PF	10% 5% 5% 5% 5%	50V 50V 50V 50V 50V	C330 C332 C333 C334 C335	1-163-005-11 1-136-169-00 1-136-169-00 1-137-372-11 1-124-903-11	FILM FILM	470PF 0.22MF 0.22MF 0.022MF 1MF	10% 5% 5% 5% 20%	50V 50V 50V 50V 50V
	C017 C019 C020 C021 C023	1-163-009-11 1-163-009-11 1-163-009-11 1-163-009-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP 2	0.001MF 0.001MF 0.001MF 0.001MF	10% 10% 10% 10% 5%	50V 50V 50V 50V 50V	C336 C341 C342 C345 C347	1-126-964-11 1-124-902-00 1-163-037-11 1-126-933-11 1-126-933-11	ELECT CERAMIC CHIP ELECT	10MF 0.47MF 0.022MF 100MF 100MF	20% 20% 10% 20% 20%	50V 50V 50V 16V 16V
	C024 C025 C027 C029 C030	1-163-125-00 1-163-125-00 1-163-125-00 1-163-007-11	CERAMIC CHIP 2 CERAMIC CHIP 2 CERAMIC CHIP 2 CERAMIC CHIP 6 CERAMIC CHIP 6	220PF 220PF 220PF 580PF	5% 5% 5% 10% 5%	50V 50V 50V 50V 50V 50V	C348 C401 C402 C403 C406	1-163-129-00 1-126-934-11 1-124-903-11 1-124-902-00 1-128-551-11	ELECT ELECT	330PF 220MF 1MF 0.47MF 22MF	5% 20% 20% 20% 20%	50V 16V 50V 50V 25V
		_ 100 120 00			J.5		8 —			٠		

The componants identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO. PART NO. DESCRIPTION REMARK REF. NO. 1	PART NO. DESCRIPTION	REMARK
C408 1-126-964-11 ELECT 10MF 20% 50V C410 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C632 1 C413 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C633 1 C418 1-163-031-11 CERAMIC CHIP 0.01MF 50V C634 1 C635 1	1-104-664-11 ELECT 47MF 1-126-971-11 ELECT 470MF 1-163-038-91 CERAMIC CHIP 0.1MF 1-164-232-11 CERAMIC CHIP 0.01MF 1-164-232-11 CERAMIC CHIP 0.01MF	20% 25V 20% 50V 25V 10% 50V 10% 50V
C502 1-104-799-11 ELECT 22MF 20% 50V C503 1-163-003-11 CERAMIC CHIP 330PF 10% 50V C637 C504 1-130-489-00 FILM 0.033MF 5% 50V C638 C505 1-163-239-11 CERAMIC CHIP 33PF 5% 50V C639	1-113-937-91 ELECT 0.0022MF 1-164-644-11 CERAMIC 330PF 0.0022MF 1-113-937-91 ELECT 0.0047MF 1-113-941-11 ELECT 0.0022MF 1-129-718-00 FILM 0.022MF	10% 500V 125V 125V
C507 1-102-038-00 CERAMIC 0.001MF 500V C508 1-102-038-00 CERAMIC 0.001MF 500V C509 1-126-804-11 ELECT 100MF 20% 35V C510 1-137-375-11 FILM 0.068MF 5% 50V C511 1-126-963-11 ELECT 4.7MF 20% 50V CN202	<connector> 1-564-505-11 PLUG, CONNECTOR 2P</connector>	
C512 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V CN501 *1 C513 1-107-929-11 ELECT 10MF 20% 50V CN601 *1 C514 1-104-664-11 ELECT 47MF 20% 25V CN602	1-560-124-00 PLUG, CONNECTOR (2.5M 1-508-766-00 PIN, CONNECTOR (5mm P 1-580-843-11 PIN, CONNECTOR (POWE 1-508-786-00 PIN, CONNECTOR (5mm P 1-508-786-00 PIN, CONNECTOR (5mm P	ITĆH) 4P R) (KV-9PT60) ITCH) 2P
C517 & 1-108-421-91 MYLAR 0.01MF 10% 200V	1-774-813-11 CONNECTOR, BOARD TO 1-766-921-11 CONNECTOR; BOARD TO	(KV-9PT60)
C522 1-111-119-11 ELECT 330MF 20% 50V C523 1-104-493-11 FILM 2.7MF 3% 100V D001 8 C524 1-106-359-00 MYLAR 0.0047MF 10% 100V D003 8 C525 1-106-383-00 MYLAR 0.047MF 10% 100V D201 8 C527 1-104-799-11 ELECT 22MF 20% 50V D302	<diode> 8-719-045-18 DIODE LN021616PH 8-719-911-19 DIODE 1SS119-25 8-719-110-72 DIODE RD30ESB2 8-719-109-84 DIODE RD5.1ESB1</diode>	
C528 1-107-635-11 ELECT 4.7MF 20% 160V C530 1-104-664-11 ELECT 47MF 20% 25V D304 8 C531 1-104-664-11 ELECT 47MF 20% 25V D305 8 C554 A 1-115-405-11 FILM 0.039MF 3% 1KV D402 C555 A 1-163-116-91 CERAMIC 680PF 10% 2KV D403	8-719-105-99 DIODE RD6.2M-B1 8-719-105-99 DIODE RD6.2M-B1 8-719-105-99 DIODE RD6.2M-B1 8-719-110-17 DIODE RD10ESB2 8-719-91-19 DIODE 1SS119-25 8-719-110-17 DIODE RD10ESB2	
C558 1-106-355-12 MYLAR 0.0033MF 10% 100V C559 1-162-115-00 CERAMIC 330PF 10% 2KV D501 8 C575 1-107-904-11 ELECT 3.3MF 20% 50V D502 8 C579 1-106-379-12 MYLAR 0.033MF 10% 100V D503 8	8-719-908-03 DIODE GP08D 8-719-908-03 DIODE GP08D 8-719-911-19 DIODE ISS119-25 8-719-302-43 DIODE EL1Z 8-719-911-19 DIODE ISS119-25	
C602 1-104-706-11 FILM 0.22MF 20% 250V C603 1-104-706-11 FILM 0.22MF 20% 250V D506 8 C604 1-124-902-00 ELECT 0.47MF 20% 50V D507 8 C605 A 1-113-937-91 ELECT 0.0022MF 125V D508 C606 1-126-941-11 ELECT 470MF 20% 25V D509 8	8-719-110-08 DIODE RD8.2ESB2 8-719-911-19 DIODE 1SS119-25 8-719-300-33 DIODE RU-3AM 8-719-302-43 DIODE EL1Z 8-719-302-43 DIODE EL1Z	
C607 1-104-664-11 ELECT 47MF 20% 25V C608 1-163-038-91 CERAMIC CHIP 0.1MF 25V D512 8 C609 1-115-434-11 ELECT 220MF 20% 200V D514 8 C610 1-164-646-11 CERAMIC 2200PF 10% 500V D601 8 C611 1-164-646-11 CERAMIC 2200PF 10% 500V D602 8	8-719-302-43 DIODE EL1Z 8-719-911-19 DIODE 1SS119-25 8-719-911-19 DIODE 1SS119-25 8-719-911-19 DIODE 1SS119-25 8-719-911-19 DIODE 1SS119-25	
C612 1-136-171-00 FILM 0.33MF 5% 50V C613 1-136-169-00 FILM 0.22MF 5% 50V D604 8 C614 1-136-169-00 FILM 0.33MF 5% 50V D605 8 C615 1-136-169-00 FILM 0.22MF 5% 50V D606 8 C616 1-164-645-11 CERAMIC 1000PF 10% 500V D607	8-719-200-82 DIODE 11ES2 8-719-200-82 DIODE 11ES2 8-719-200-82 DIODE 11ES2 8-719-200-82 DIODE 11ES2 8-719-911-19 DIODE 1SS119-25	
C617	8-719-911-19 DIODE ISS119-25 8-719-911-19 DIODE ISS119-25 8-719-058-90 DIODE DINL20-TR2 8-719-109-90 DIODE RD5.6ESB3 8-719-058-90 DIODE DINL20-TR2	
C622 1-165-127-11 CERAMIC 470PF 10% 500V D614 8 C623 1-165-127-11 CERAMIC 470PF 10% 500V D614 8 C624 1-164-644-11 CERAMIC 330PF 10% 500V D615 8 C625 1-126-940-11 ELECT 330MF 20% 25V D616 8 C626 1-126-965-11 ELECT 22MF 20% 50V D617 8	8-719-032-12 DIODE DINS6 8-719-032-12 DIODE DINS6 8-719-911-19 DIODE 1SS119-25 8-719-911-19 DIODE 1SS119-25 (KV-9PT 8-719-911-19 DIODE 1SS119-25 (KV-9PT	
C627 1-126-971-11 ELECT 470MF 20% 50V C628 1-104-664-11 ELECT 47MF 20% 25V D619 8 C629 1-137-399-11 FILM 0.1MF 5% 50V D620 8 (KV-9PT60) D621 8	8-719-058-08 DIODE RD51F-T7B 8-719-510-02 DIODE D1NS4 (KV-9PT60) 8-719-911-19 DIODE 1SS119-25 8-719-200-62 DIODE 20E2H (KV-9PT60)	



Q408

REMARK PART NO. DESCRIPTION REF. NO. D623 8-719-058-90 DIODE D1NL20-TR2 (KV-9PT60) <FUSE> F601 A 1-533-420-11 FUSE GLASS CYLINDRICAL(DIA 5)5A/125V 1-533-223-11 HOLDER, FUSE; F601 <FERRITE BEAD> 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH 1-412-911-11 INDUCTOR, FERRITE BEAD FB001 FB003 FB501 FB601 FB602 1-412-911-11 INDUCTOR, FERRITE BEAD FB603 1-412-911-11 INDUCTOR, FERRITE BEAD 1-412-911-11 INDUCTOR, FERRITE BEAD FB604 1-412-911-11 INDUCTOR, FERRITE BEAD (KV-9PT60) FB605 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH FB606 FB607 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH FB608 1-410-396-41 FERRITE BEAD INDUCTOR 0.45UH FB609 1-412-911-11 INDUCTOR, FERRITE BEAD FB610 <IC> 8-752-871-83 IC CXP85112B-638S IC101 IC102 8-759-354-28 IC ST24C02FM6TR IC103 8-747-905-11 RAY CATCHER ELEMENT SBX1790-51 8-759-365-39 IC TDA7267 8-759-168-20 IC TA78L09S IC201 IC202 8-752-057-68 IC CXA1464AS IC301 8-759-300-71 IC HD14053BFP 8-759-801-98 IC LA7830 IC401 IC501 IC502 8-759-252-53 IC RC4558PS-E20 8-759-198-31 IC uPC1093J-1-T IC601 8-759-054-12 IC PQ09RA1 8-759-805-37 IC L78LR05D-MA IC602 IC603 <JACK> J251 1-568-267-21 JACK 1-695-239-11 JACK BLOCK, PIN 2P J401 1-750-523-11 JACK, DC (KV-9PT60) <COIL> L002 1-408-413-00 INDUCTOR 22UH 1-408-413-00 INDUCTOR 22UH L004 1-410-470-11 INDUCTOR 10UH L202 1-408-413-00 INDUCTOR 22UH L203 L301 1-410-478-11 INDUCTOR 47UH L502 1-408-419-00 INDUCTOR 68UH 1-412-525-61 INDUCTOR IOUH 1-411-764-11 COIL, VAR FERRITE (HWC) 1-412-529-21 INDUCTOR 22UH 1-410-470-11 INDUCTOR IOUH L503 L505 L601 L602 1-412-529-11 INDUCTOR 22UH L603 <TRANSISTOR> 8-729-216-22 TRANSISTOR 2SA1162-G Q001 Q002 8-729-216-22 TRANSISTOR 2SA1162-G Q003 8-729-422-27 TRANSISTOR 2SD601A-Q 8-729-900-53 TRANSISTOR DTC114EK 8-729-422-27 TRANSISTOR 2SD601A-Q Q201 Q202 8-729-422-27 TRANSISTOR 2SD601A-Q 8-729-422-27 TRANSISTOR 2SD601A-Q 8-729-422-27 TRANSISTOR 2SD601A-Q 8-729-422-27 TRANSISTOR 2SD601A-Q Q301 Q401 **O**402

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une

The componants identified by shading and mark A are critical for safety. Replace only with part number

		piece portant le nu		specified.		
,	REF. NO.	PART NO.	DESCRIPTION			REMARK
	Q410		TRANSISTOR	2SA1162-G	_	
	Q412	8-729-216-22	TRANSISTOR	2SA1162-G		
Ì	Q504	8-729-105-08	TRANSISTOR TRANSISTOR	2SA1330-06		
١	Q550 Q551	8-729-034-87	TRANSISTOR	2SC4161MN	-RA11	
8	Q554	8-729-216-22	TRANSISTOR	2SA1162-G		
	Q555 Q602	8-729-422-27 8-729-025-77	TRANSISTOR TRANSISTOR	2SD601A-Q 2SC4663NPF	R-F	
-	O603	8-729-026-49	TRANSISTOR	2SA1037AK-	-T146-R	
-	Q604 Q605	8-729-024-65 8-729-422-27	TRANSISTOR TRANSISTOR	2SB733-34 2SD601A-Q		
	0606	8-729-422-27	TRANSISTOR	2SD601A-O	(KV-9P1	r60)
-	Q607 Q609	8-729-926-17 8-729-025-77	TRANSISTOR TRANSISTOR	2SC4663NPF	[103 {-F	
			<resistor></resistor>			
	R001		CONDUCTOR			
ı	R002	1-216-295-91	CONDUCTOR METAL GLAZ	, CHIP	5%	1/10W
-	R003 R004		METAL GLAZ		5%	1/10W
100000	R005		METAL GLAZ		5%	1/10W
	R007	1-216-057-00	METAL GLAZ	E 2.2K	5%	1/10W
	R008	1-216-033-00	METAL GLAZ METAL GLAZ	Œ 220	5% 5%	1/10W 1/10W
	R009 R010		METAL GLAZ		5%	1/10W
-	R012		METAL GLAZ		5%	1/10W
	R013		METAL GLAZ		5%	1/10W
	R014	1-216-033-00	METAL GLAZ METAL GLAZ	E 220	5% 5%	1/10W 1/10W
	R015 R016		METAL GLAZ		5%	1/10W
	R018	1-216-049-91	METAL GLAZ	E IK	5%	1/10W
	R019		METAL GLAZ		5%	1/10W
	R020 R021		METAL GLAZ METAL GLAZ		5% 5%	1/10W 1/10W
	R022	1-216-047-91	METAL GLAZ	E 820	5%	1/10W
	R023 R024	1-216-057-00	METAL GLAZ METAL GLAZ	E 2.2K	5% 5%	1/10W 1/10W
	R024 R025	1-216-033-00	METAL GLAZ	ZE 220	5%	1/10W
	R026	1-216-033-00	METAL GLAZ	ZE 220	5%	1/10W
	R027 R028	1-216-033-00	METAL GLAZ INDUCTOR C	HIP 10UH	5%	1/10W
	R029	1-216-065-00	METAL GLAZ	ZE 4.7K	5%	1/10W
	R031	1-216-061-00	METAL GLAZ	ZE 3.3K	5%	1/10W
	R032	1-216-033-00	METAL GLAZ	ZE 220	5% 5%	1/10W 1/10W
	R033 R034		CONDUCTOR		370	1/10 **
	R035	1-216-073-00	METAL GLAZ	ZE 10K	5%	1/10W
	R036		METAL GLAZ		5%	1/10W
	R037 R039		METAL GLAZ METAL GLAZ		5% 5%	1/10W 1/10W
	R041	1-216-073-00	METAL GLAZ	ZE 10K	5%	1/10W
	R042	1-216-033-00	METAL GLAZ	ZE 220	5%	1/10W
×	R044		METAL GLAZ		5% 5%	1/10W 1/10W
	R045 R046		METAL GLAZ METAL GLAZ		5%	1/10W 1/10W
200	R047		METAL GLAZ		5%	1/10W
	R048	1-216-025-91	METAL GLAZ	ZE 100	5%	1/10W
	R049		METAL GLAZ		5%	1/10W 1/10W
	R050 R052		METAL GLAZ METAL GLAZ		5% 5%	1/10W 1/10W
	R054	1-216-073-00	METAL GLAZ	ZE 10K	5% 5%	1/10W 1/10W
	R055		METAL GLAZ			
	R056	1-216-065-00	METAL GLAZ	ZE 4.7K	5% 5%	1/10W 1/10W
	R057		METAL GLAZ METAL GLAZ		5%	1/10W
	R061	1-216-045-00	METAL GLAZ	ZE 680	5%	1/10W
	R062		METAL GLAZ		5%	1/10W
	R063 R064		METAL GLAZ METAL GLAZ		5% 5%	1/10W 1/10W
	14004	1-210-013-00	WILLY OFW	1011	5 /0	., , ,

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	212210	Procedure (·	к		alue originally			р	EMADE
REF. NO.	PART NO.	DESCRIPTION		<u>K</u>	EMARK	REF. NO.	PART NO.	DESCRIPTION			EMARK
R065		METAL GLAZE		5% 5%	1/10W	R427 R430		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R067 ■ R069		METAL GLAZE			1/10W 1/10W	R430		METAL GLAZE		5%	1/10W
000000000000000000000000000000000000000				***************************************		R435	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R101 R201		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R436	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R202	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R442		METAL GLAZE		5%	1/10W
R203 R204		METAL OXIDE METAL GLAZE		5% 5%	1W F	R502 R504	1-249-417-11 1-216-073-00	METAL GLAZE	1K 10K	5% 5%	1/4W 1/10W
R205	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R506	1-249-415-11		680	5%	1/4W
R206 R207		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R508	1-216-049-91	METAL GLAZE	ıĸ	5%	1/10W
R208	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R509	1-216-101-00	METAL GLAZE	150K	5%	1/10W
R209 R210		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R510 R511	1-249-420-11	CARBON METAL GLAZE	1.8K 47K	5% 5%	1/4W 1/10W
						R512		METAL CHIP	10K	0.50%	1/10W
R211	1-216-049-91	METAL GLAZE	1K 47	5% 5%	1/10W 1/4W F	R513	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R212 R213	1-216-049-91	METAL GLAZE	lK	5%	1/10W	R515	1-208-806-11	METAL CHIP	10 K	0.50%	1/10W
R216 R217	1-216-049-91	METAL GLAZE METAL GLAZE	IK	5% 5%	1/10W 1/10W	R516 R517		METAL OXIDE METAL GLAZE		5% 5%	1W F 1/10W
K217						R518		METAL CHIP	2.7K	0.50%	1/10W
R271 R272		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R519	1-215-453-00	METAL.	22K	1%	1/4W
R273	1-216-037-00	METAL GLAZE	330	5%	1/10W	R520	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R301		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R521 R523	1-216-073-00 1-215-471-00	METAL GLAZE	10K 120K	5% 1%	1/10W 1/4W
R302	1-210-023-91	WIETAL GLAZE	100			R525		METAL CHIP	27K	0.50%	1/10W
R303 R304		METAL GLAZE CONDUCTOR, O		5%	1/10W	R526	1-216-295-91	CONDUCTOR, C	HIP		
R304 R307		METAL GLAZE	10K	5%	1/10W	R527		METAL CHIP	22K	0.50%	1/10W
R311		METAL CHIP METAL GLAZE	13K	0.50% 5%	1/10W 1/10W	R531 A R532		METAL OXIDE METAL CHIP	2.2 82K	5% 0.50%	IW F
R312	1-210-079-00	METAL GLAZE	10K	370		R534		METAL CHIP	82K	0.50%	1/10W
R313 R314		METAL CHIP METAL GLAZE	1.2K	0.50% 5%	1/10W 1/10W	R536	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R315		CONDUCTOR, O		370	171044	R538		METAL OXIDE		5%	IW F
R323		METAL GLAZE		5% 5%	1/10W 1/10W	R543 R544		METAL CHIP METAL CHIP	100K 1.2K	0.50% 0.50%	1/10W 1/10W
R324	1-216-029-00	METAL GLAZE	130		1/10 W	R545		METAL GLAZE		5%	1/10W
R325		METAL GLAZE		5% 5%	1/10W 1/10W	R547	1 216 073 00	METAL GLAZE	10K	5%	1/10W
R326 R327		METAL GLAZE METAL GLAZE		5%	1/10W 1/10W	R548		METAL GLAZE		5%	1/10W
R328		METAL GLAZE		5%	1/10W	R549 /	1-216-365-71	METAL OXIDE	0.47	5%	2W F 1/10W
R333	1-216-295-91	CONDUCTOR, O	LHIP	•		R554 R555		METAL GLAZE METAL OXIDE		5% 5%	2W F
R334		CONDUCTOR, C		EM.	1/1037	D 5 5 7	1 216 065 00	METAL GLAZE	47V	50%	1/10W
R336 R338		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R557 R558		METAL GLAZE		5% 5%	1/10W
R339	1-249-415-11	CARBON	680	5%	1/4W	R559		METAL GLAZE		5%	1/10W
R341	1-216-687-11	METAL CHIP	33K	0.50%	1/10W	R560 R563		METAL GLAZE METAL OXIDE		5% 5%	1/10W 1W F
R343		METAL GLAZE		5%	1/10W					1000±00±0 ana£5000 0000	
R345 R346		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R601 A	1-219-238-91 1-249-401-11	CARBON	4.7M 47	20% 5%	1/2W 1/4W
R347	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R603	1-219-785-11	WIREWOUND	2.2	5%	5W
R351	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R604 A R605	1-260-288-71 1-260-072-11	CARBON	0.47 4.7	5% 5%	1/2W 1/2W
R356		METAL GLAZE		5%	1/10W						
R360 R365	1-216-041-00 1-249-417-11	METAL GLAZE	470 1K	5% 5%	1/10W 1/4W F	R606 R607	1-247-891-00 1-249-401-11		330K 47	5% 5%	1/4W 1/4W
R367	1-216-109-00	METAL GLAZE	330K	5%	1/10W	R608	1-202-719-00	SOLID	1M	20%	1/2W
R401	1-216-022-00	METAL GLAZE	75	5%	1/10W	R609 R610	1-247-891-00 1-247-891-00		330K 330K	5% 5%	1/4W 1/4W
R402		METAL GLAZE		5%	1/10W						
R403 R404		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R611 / R612	1-212-849-61 1-249-401-11		4.7 47	5% 5%	1/4W F 1/4W
R405		METAL GLAZE		5%	1/10W	R613	1-249-401-11	CARBON	47	5%	1/4W
R406	1-216-047-91	METAL GLAZE	820	5%	1/10W	R614 // R619	1-249-377-91 1-260-072-11	CARBON	0.47 4.7	5% 5%	1/4W F 1/2W
R407		METAL GLAZE		5%	1/10W						
R409 R410		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R620 R621	1-249-430-11 1-260-099-11		12K 1K	5% 5%	1/4W 1/2W
R415		METAL GLAZE		5%	1/10W	R622		METAL GLAZE	10K	5%	1/10W
R416	1-216-033-00	METAL GLAZE	220	5%	1/10W	R623 R624	1-249-429-11	CARBON METAL GLAZE	10K	5% 5%	1/4W 1/10W
R418	1-216-295-91	CONDUCTOR, O	CHIP			NU24					
R419 '	1-216-295-91	CONDUCTOR, O	CHIP	50%	1/10W	R625 R626		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W
R422 R423		METAL GLAZE METAL GLAZE		5% 5%	1/10W 1/10W	R627	1-216-657-11	METAL CHIP	1.8K	0.50%	1/10W
R425		METAL GLAZE		5%	1/10W	R628	1-249-415-11		680	5%	1/4W 1/10W
R426	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	R629		METAL CHIP	24K		1/10 1/
	000										

KV-9PT50/KV-9PT60 RM-Y116

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REF. NO.	PART NO.	DESCRIPTION	tne value	-	REMARK	REF. NO.	PART NO.	DESCRIPTION		<u>I</u>	REMARK
R630		METAL GLAZE 1K		5%	1/10W			<connector></connector>			
R631 A R632 A R633	1-249-377-91	METAL OXIDE 04 CARBON 04 METAL GLAZE 10	47 5	% %	1W F 1/4W F 1/10W (KV-9PT60)	CN701 CN704		TAB (CONTACT) TAB (CONTACT)			
R634	1-216-073-00	METAL GLAZE 10	OK 5	5%	1/10W (KV-9PT60)			<diode></diode>	g		
R635		METAL GLAZE 10			1/10W (KV-9PT60)	D770 D771	8-719-911-19	DIODE 188119-25 DIODE 188119-25			
R636 R639 R640	1-247-891-00 1-216-057-00 1-216-073-00	METAL GLAZE 2.3 METAL GLAZE 10	2K 5	5% 5% 5%	1/4W 1/10W 1/10W	D772 D773 D777	8-719-911-19	DIODE 1SS119-25 DIODE 1SS119-25 DIODE RD3.9ESE	,		
R644 Å	1-216-355-71	METAL OXIDE 3 <variable resis<="" td=""><td></td><td>3%</td><td>IW F</td><td>D790 D791</td><td>8-719-911-19</td><td>DIODE 188119-25 DIODE 188119-25</td><td>5</td><td></td><td></td></variable>		3%	IW F	D790 D791	8-719-911-19	DIODE 188119-25 DIODE 188119-25	5		
SZEVANI A	1.241-773-21	RES, ADJ, CERME				D792	8-719-911-19	DIODE 1SS119-25	5		
		*		***************************************				<jack></jack>			
	,	<switch></switch>				J701	1-526-958-71	SOCKET, PICTUI	RE TUBE		
S001 S002 S004	1-570-577-11 1-570-577-11	SWITCH, TACTILE SWITCH, PUSH SWITCH, PUSH			\			<coil></coil>			
S006	1-692-431-21	SWITCH, TACTILE	В		/	L701	1-410-478-11	INDUCTOR 47UI	ł		
		<transformer></transformer>						<transistor></transistor>			
T551	1-429-411-11	FBT ASSY NX 174 TRANSFORMER, H	45//X4F4 HORIZON	TAL	DRIVE	Q711		TRANSISTOR 2S TRANSISTOR 2S			
T603 4	1-429-433-11	FILTER LINE TRANSFORMER (CONVERT	ER (PIT)	Q731 Q751 Q770	8-729-326-11	TRANSISTOR 2S TRANSISTOR 2S	C2611	E	
T604 A	1-427-864-12	TRANSFORMER, C	CUNVERI	EK ()	(KI)	Q771		TRANSISTOR 2S			
		<thermistor></thermistor>				Q772 Q773	8-729-200-17 8-729-200-17	TRANSISTOR 2S TRANSISTOR 2S	A1091-O A1091-O		
THP601	1-800-686-31	THERMISTOR (PO	SITIVE)								
			,					-DECICTORS			
		<tuner></tuner>				P700	1 260 087-11	<resistor></resistor>	100	5%	1/2W
TU101	8-598-339-00	<tuner> TUNER BTF-LA40</tuner>	2			R700 R701	1-260-087-11 1-260-135-11	CARBON CARBON	100 1M 2.2K	5% 5% 5%	1/2W 1/2W 1/2W
,	8-598-339-00		2			R701 R703	1-260-135-11 1-260-103-11	CARBON CARBON CARBON METAL OXIDE			
TU101	8-598-339-00 1-810-053-11	TUNER BTF-LA40 <varistor></varistor>	2			R701 R703 R704 R710 R711 R712	1-260-135-11 1-260-103-11 6 1-216-398-71 1-260-103-11 1-216-025-91 1-215-898-11	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE METAL OXIDE	1M 2.2K 5.6 2.2K 100 10K	5% 5% 5% 5% 5%	1/2W 1/2W 3W F 1/2W 1/10W 2W F
TU101	1-810-053-11	TUNER BTF-LA40 <varistor> VARISTOR <crystal></crystal></varistor>				R701 R703 R704 R710	1-260-135-11 1-260-103-11 1-216-398-71 1-260-103-11 1-216-025-91 1-215-898-11 1-216-081-00	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE	1M 2.2K 5.6 2.2K 100 10K 22K	5% 5% 5% 5%	1/2W 1/2W 3W F 1/2W
TU101	1-810-053-11 1-567-192-11	TUNER BTF-LA40 <varistor> VARISTOR</varistor>	ERAMIC			R701 R703 R704 R710 R711 R712 R714 R716 R730	1-260-135-11 1-260-103-11 1-216-398-7 1-260-103-11 1-216-025-91 1-215-898-11 1-216-081-00 1-216-037-00 1-260-103-11	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE CARBON	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/2W 1/2W 3W 1/2W 1/10W 2W F 1/10W 1/10W 1/10W 1/10W
TU101 VDR602 X001 X301	1-810-053-11 1-567-192-11 1-760-190-41	TUNER BTF-LA40 <varistor> VARISTOR <crystal> OSCILLATOR, CE VIBRATOR, CRYSTALS</crystal></varistor>	ERAMIC STAL			R701 R703 R704 R710 R711 R712 R714 R716 R730 R731 R732 R734	1-260-135-11 1-260-103-11 8 1216-398-7 1-260-103-11 1-216-025-91 1-216-081-00 1-260-103-11 1-216-025-91 1-215-898-11 1-216-025-91 1-215-898-11	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/2W 1/2W 3W 1/2W 1/10W 2W 1/10W 1/10W 1/2W 1/10W 2W 1/10W 5 1/10W 1/10W 1/10W 1/10W
TU101 VDR602 X001 X301 ********	1-810-053-11 1-567-192-11 1-760-190-41 *********	TUNER BTF-LA40 <varistor> VARISTOR <crystal> OSCILLATOR, CE VIBRATOR, CRYSTALS ***********************************</crystal></varistor>	ERAMIC STAL ********	****	******	R701 R703 R704 R710 R711 R712 R714 R716 R730	1-260-135-11 1-260-103-11 8 1216-398-7 1-260-103-11 1-216-025-91 1-216-081-00 1-260-103-11 1-216-025-91 1-215-898-11 1-216-025-91 1-215-898-11	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/2W 1/2W 3W F 1/2W 1/10W 2W F 1/10W 1/10W 1/2W 1/10W 2W F
TU101 VDR602 X001 X301 ********	1-810-053-11 1-567-192-11 1-760-190-41 *********	TUNER BTF-LA40 <varistor> VARISTOR <crystal> OSCILLATOR, CE VIBRATOR, CRYSTALS</crystal></varistor>	RAMIC STAL *********	****	*****	R701 R703 R704 R710 R711 R712 R714 R716 R730 R731 R732 R734 R736 R750	1-260-135-11 1-260-103-11 1-216-398-7 1-260-103-11 1-216-025-91 1-215-898-11 1-216-037-00 1-260-103-11 1-216-025-91 1-215-898-11 1-216-081-00 1-216-035-00 1-260-103-11 1-216-025-91	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE CARBON METAL GLAZE	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K 100 10K 22K 270 2.2K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/2W 1/2W 3W 1/2W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
TU101 VDR602 X001 X301 ********	1-810-053-11 1-567-192-11 1-760-190-41 ************************************	TUNER BTF-LA40 <varistor> VARISTOR <crystal> OSCILLATOR, CE VIBRATOR, CRYSTALS A C BOARD, COMIT</crystal></varistor>	RAMIC STAL ************************************		*****	R701 R703 R704 R710 R711 R712 R714 R716 R730 R731 R732 R734 R736 R750 R751 R752 R754 R756	1-260-135-11 1-260-103-11 1 216-398-71 1-260-103-11 1-216-025-91 1-216-081-00 1-216-037-00 1-260-103-11 1-216-081-00 1-216-035-00 1-260-103-11 1-216-081-00 1-216-035-00 1-216-035-00 1-216-081-00 1-216-081-00 1-216-081-00 1-216-081-00	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K 100 10K 22K 270 2.2K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/2W 1/2W 3W 1/2W 1/10W 2W F 1/10W 1/10W 1/2W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
TU101 VDR602 X001 X301 ********	1-810-053-11 1-567-192-11 1-760-190-41 ************************************	TUNER BTF-LA40 <varistor> VARISTOR <crystal> OSCILLATOR, CE VIBRATOR, CRYSTAL> A C BOARD, COMI ************************************</crystal></varistor>	RAMIC STAL ************************************		*****	R701 R703 R704 R710 R711 R712 R714 R716 R730 R731 R732 R734 R736 R750 R751 R752 R754 R756 R770	1-260-135-11 1-260-103-11 1-216-398-7 1-260-103-11 1-215-898-11 1-216-081-00 1-260-103-11 1-216-025-91 1-215-898-11 1-216-025-91 1-216-035-00 1-260-103-11 1-216-025-91 1-215-898-11 1-216-081-00 1-216-035-00 1-216-035-00 1-247-881-00	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K 100 10K 22K 270 2.2K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/2W 1/2W 3W F 1/2W 1/10W 1/10W 1/10W 1/2W 1/10W 1/10W 1/2W 1/10W 1/2W 1/10W 1/10W 1/2W F 1/10W 1/10W 1/2W F 1/10W 1/10W F 1/10W 1/10W
TU101 VDR602 X001 X301 ***********************************	1-810-053-11 1-567-192-11 1-760-190-41 ********** * A-1331-511- 4-382-854-11	TUNER BTF-LA40 <varistor> VARISTOR <crystal> OSCILLATOR, CE VIBRATOR, CRYSTAL> A C BOARD, COMI ************************************</crystal></varistor>	ERAMIC STAL ************************************		500V	R701 R703 R704 R710 R711 R712 R714 R716 R730 R731 R732 R734 R736 R750 R751 R752 R754 R756 R770	1-260-135-11 1-260-103-11 1-216-398-71 1-216-025-91 1-215-898-11 1-216-037-00 1-260-103-11 1-216-037-00 1-260-103-11 1-216-035-00 1-216-035-00 1-216-035-00 1-216-035-00 1-216-035-00 1-216-035-00 1-216-035-00 1-247-881-00 1-249-437-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE CARBON METAL GLAZE CARBON CARBON CARBON CARBON CARBON	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K 100 10K 22K 270 2.2K 100 10K 22K 270 120K 47K 11K 220	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/2W 1/2W 3W 1/2W 1/10W 2W 1/10W 1/10W 1/2W 1/10W 1/10W 1/2W 1/10W 1/2W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
TU101 VDR602 X001 X301 ***********************************	1-810-053-11 1-567-192-11 1-760-190-41 ************************************	TUNER BTF-LA40 <varistor> VARISTOR <crystal> OSCILLATOR, CE VIBRATOR, CRYSTAL> A C BOARD, COMI ************************************</crystal></varistor>	RAMIC STAL ************************************	20%	500V 2KV 25V	R701 R703 R704 R710 R711 R712 R714 R716 R730 R731 R732 R734 R736 R750 R751 R752 R754 R756 R770	1-260-135-11 1-260-103-11 1-216-398-71 1-260-103-11 1-215-898-11 1-216-081-00 1-260-103-11 1-216-037-00 1-260-103-11 1-216-081-00 1-260-103-11 1-216-035-00 1-260-103-11 1-216-081-00 1-216-035-00 1-247-881-00 1-249-437-11 1-249-417-11 1-249-417-11 1-247-815-91 1-216-041-00	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE CARBON METAL GLAZE CARBON CARBON CARBON CARBON CARBON CARBON METAL GLAZE	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K 100 10K 22K 270 2.2K 100 10K 22K 270 120K 47K 1K 120 470	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/2W 1/2W 1/2W 1/10W
TU101 VDR602 X001 X301 ***********************************	1-810-053-11 1-567-192-11 1-760-190-41 ********** * A-1331-511- 4-382-854-11 1-102-050-00 1-162-114-01 1-102-228-00	TUNER BTF-LA40 <varistor> VARISTOR <crystal> OSCILLATOR, CE VIBRATOR, CRYSTAL> A C BOARD, COMI ************************************</crystal></varistor>	ERAMIC STAL ************************************		500V 2KV	R701 R703 R704 R710 R711 R712 R714 R716 R730 R731 R732 R734 R736 R750 R751 R752 R754 R756 R770 R771 R775 R776 R770	1-260-135-11 1-260-103-11 1-216-398-71 1-216-025-91 1-215-898-11 1-216-037-00 1-260-103-11 1-216-037-00 1-260-103-11 1-216-035-00	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON CARBON CARBON CARBON CARBON CARBON METAL GLAZE METAL GLAZE	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K 100 10K 22K 270 2.2K 100 10K 22K 270 120K 47K 11K 220 470 470	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/2W 1/2W 1/2W 1/10W
TU101 VDR602 X001 X301 ******** C701 C703 C706 C708 C712 C732	1-810-053-11 1-567-192-11 1-760-190-41 *********** * A-1331-511- 4-382-854-11 1-102-050-00 1-162-114-00 1-128-551-11 1-102-228-00 1-163-007-11	TUNER BTF-LA40 <varistor> VARISTOR <crystal> OSCILLATOR, CE VIBRATOR, CRYSTAL> A C BOARD, COMI ************************************</crystal></varistor>	ERAMIC STAL ************************************	20% 10%	500V 2KV 25V 500V	R701 R703 R704 R710 R711 R712 R714 R716 R730 R731 R732 R734 R736 R750 R751 R752 R754 R756 R770 R771 R775 R776 R770	1-260-135-11 1-260-103-11 1-216-398-71 1-216-025-91 1-215-898-11 1-216-037-00 1-260-103-11 1-216-037-00 1-260-103-11 1-216-035-00	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE CARBON METAL GLAZE	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K 100 10K 22K 270 2.2K 100 10K 22K 270 120K 47K 1K 1220 470 470	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/2W 1/2W 1/2W 1/10W
TU101 VDR602 X001 X301 ***********************************	1-810-053-11 1-567-192-11 1-760-190-41 *********** * A-1331-511- 4-382-854-11 1-102-050-00 1-162-114-00 1-128-551-11 1-102-228-00 1-163-007-11 1-163-007-11 1-163-005-11	VARISTOR> VARISTOR VARISTOR CRYSTAL> OSCILLATOR, CE VIBRATOR, CRYSTAL> A C BOARD, COMINE SCREW (M3X10), CAPACITOR> CERAMIC 0 CERAMIC 0 CERAMIC 0 CERAMIC 4 CERAMIC CHIP 6 CERAMIC CHIP 6	ERAMIC STAL ************************************	20% 10% 10%	500V 2KV 25V 500V 50V 50V 50V 50V 50V	R701 R703 R704 R710 R711 R712 R714 R716 R730 R731 R732 R734 R736 R750 R751 R752 R754 R756 R770 R771 R775 R776 R770	1-260-135-11 1-260-103-11 1-216-398-71 1-216-025-91 1-215-898-11 1-216-037-00 1-260-103-11 1-216-037-00 1-260-103-11 1-216-035-00	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON CARBON CARBON CARBON CARBON CARBON METAL GLAZE METAL GLAZE	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K 100 10K 22K 270 2.2K 100 10K 22K 270 120K 47K 1K 22O 47O 47O	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/2W 1/2W 1/2W 1/10W
TU101 VDR602 X001 X301 ********** C701 C703 C706 C708 C712 C732 C752 C771	1-810-053-11 1-567-192-11 1-760-190-41 *********** * A-1331-511- 4-382-854-11 1-102-050-00 1-162-114-00 1-163-007-11 1-163-007-11 1-163-005-11 1-163-005-11	VARISTOR> VARISTOR VARISTOR CRYSTAL> OSCILLATOR, CE VIBRATOR, CRYSTAL> A C BOARD, COMI ************************************	ERAMIC STAL ************************************	20% 10% 10% 10% 10%	500V 2KV 25V 500V 50V 50V 50V 50V	R701 R703 R704 R710 R711 R712 R714 R716 R730 R731 R732 R734 R736 R750 R751 R752 R754 R756 R770 R777 R776 R779 R779 R791	1-260-135-11 1-260-103-11 1-216-398-71 1-216-025-91 1-215-898-11 1-216-037-00 1-260-103-11 1-216-037-00 1-260-103-11 1-216-081-00 1-216-035-00 1-260-103-11 1-216-035-00 1-260-103-11 1-216-081-00 1-216-035-00 1-247-881-00 1-249-437-11 1-249-417-11 1-247-815-91 1-216-041-00 1-216-041-00	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE CARBON METAL GLAZE	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K 100 10K 22K 270 2.2K 100 10K 22K 270 120K 47K 1K 1220 470 470	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/2W 1/2W 1/2W 1/10W
TU101 VDR602 X001 X301 ***********************************	1-810-053-11 1-567-192-11 1-760-190-41 *********** * A-1331-511- 4-382-854-11 1-102-050-00 1-162-114-00 1-163-007-11 1-163-007-11 1-163-005-11 1-163-005-11	VARISTOR> VARISTOR VARISTOR CRYSTAL> OSCILLATOR, CE VIBRATOR, CRYSTAL> A C BOARD, COMI ************************************	ERAMIC STAL ************************************	20% 10% 10% 10% 10% 10%	500V 2KV 25V 500V 50V 50V 50V 50V 50V	R701 R703 R704 R710 R711 R712 R714 R716 R730 R731 R732 R734 R736 R750 R751 R752 R754 R755 R776 R770 R777 R776 R790 R791	1-260-135-11 1-260-103-11 1-216-398-71 1-260-103-11 1-216-025-91 1-215-898-11 1-216-037-00 1-260-103-11 1-216-035-00 1-216-035-00 1-260-103-11 1-216-081-00 1-216-035-00 1-247-881-00 1-249-437-11 1-249-437-11 1-249-417-11 1-247-815-91 1-216-041-00 ***********************************	CARBON CARBON CARBON METAL OXIDE CARBON METAL GLAZE	1M 2.2K 5.6 2.2K 100 10K 22K 330 2.2K 100 10K 22K 270 2.2K 100 10K 22K 270 120K 47K 1K 220 47O 47O 47O	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/2W 1/2W 1/2W 1/10W

The components identified by shading and mark A are critical for safety. Replace only with part number

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

specified. REF. NO.

PART NO. DESCRIPTION REMARK

1-766-374-11 PLUG, F-PIN

1-900-217-43 READ ASSY, FOCUS 1-900-217-44 READ ASSY, SCREEN

↑ 8-451-450-11 DEPLECTION YOKE Y10SLA
↑ 8-735-822-05 PICTURE TUBE 10SL (A23LDU10X)

ACCESSORIES AND PACKING MATERIALS

X-4033-201-1 BRACKET ASSY (KV-9PT50) 1-501-813-11 ANTENNA, TELESCOPIC (KV-9PT60) 1-501-813-21 ANTENNA, TELESCOPIC (KV-9PT50) 1-574-085-11 CORD, POWER (KV-9PT60) 1-751-198-21 CORD, CAR BATTERY (KV-9PT60)

1-776-846-11 CORD, POWER (KV-9PT50)
3-701-627-00 BAG, POLYETHYLENE
3-810-578-11 MANUAL, INSTRUCTION
3-810-578-21 MANUAL, INSTRUCTION (Canadian Model)
*4-046-206-01 BAG, POLYETHYLENE

*4-052-136-01 INDIVIDUAL CARTON (KV-9PT50) *4-052-137-01 TRAY (KV-9PT50) *4-052-138-01 INDIVIDUAL CARTON (KV-9PT60)

*4-052-140-01 CUSHION (UPPER) (ASSY)

*4-052-141-01 CUSHION (LOWER) (ASSY)

* 4-052-146-01 BAG, PROTECTION

4-052-214-01 FOOT (KV-9PT50) 4-052-216-01 SCREW (L) (M6X70) (KV-9PT50) 4-052-217-01 SCREW (S) (M6X40) (KV-9PT50) 4-052-218-01 NUT, M6 (KV-9PT50)

4-052-586-01 SPACER (KV-9PT50)

4-052-587-01 WASHER (KV-9PT50) *4-053-148-01 BAG, POLYETHYLENE (KV-9PT50)

4-053-225-01 PALLET (KV-9PT60) 4-053-227-01 PALLET (KV-9PT50)

7-651-303-43 TAPE, PP (T=90U) (75MMX500M) 7-685-648-79 SCREW +BVTP 3X12 TYPE2 IT-3

(KV-9PT50)

REMOTE COMMANDER

1-466-966-11 REMOTE COMMANDER (RM-Y116)

(KV-9PT60)

9-903-826-01 POCKET, COVER (FOR RM-Y116)

(KV-9PT60)

1-466-966-41 REMOTE COMMANDER (RM-Y116)

(KV-9PT50)

9-903-826-01 POCKET, COVER (FOR RM-Y116)

(KV-9PT50)